

**TRIDONIC**

▼ enlightening your ideas

Control gear and lighting control systems

# Catalogue 2012/2013



**LED Solution Box – all your LEDs under perfect control:**  
components and systems for your product solution.  
[led.tridonic.com](http://led.tridonic.com)



Enlightening your ideas

“I want light I can rely on.”

The flexible Tridonic LED portfolio

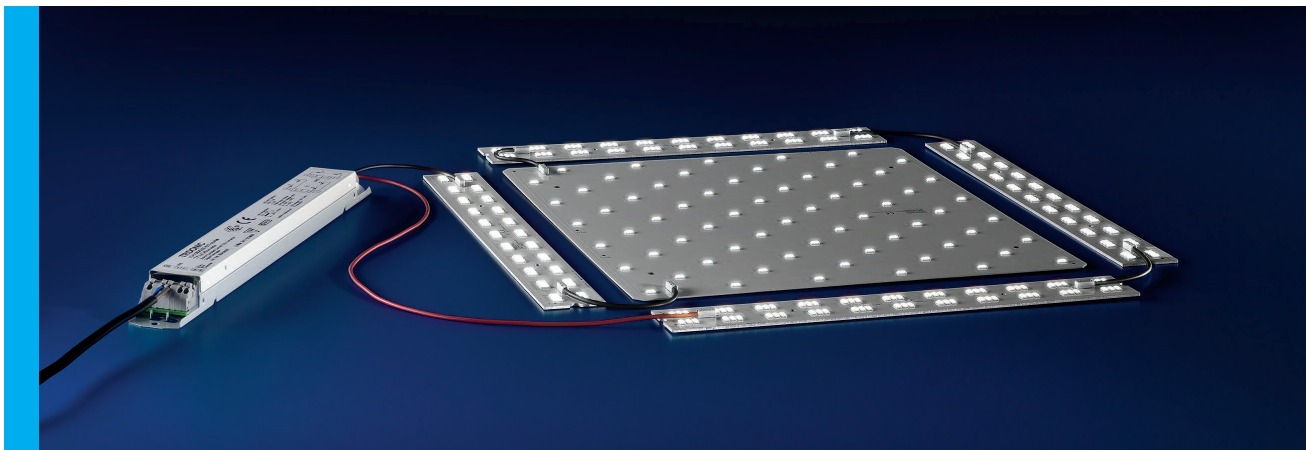
# Lighting expertise from individual components to complete system solutions

LED technology opens up new opportunities for you in the design of lighting and luminaires. To ensure you make successful use of this technology we offer a broad portfolio of versatile LED products of exceptional quality under the name of TALEX.

As a leading manufacturer of control gear for conventional lighting, we know everything there is to know about controlling light and you reap the benefit with lighting solutions based on LED technology.

Whatever the lighting task Tridonic will provide you with all you need to succeed with revolutionary LED light.

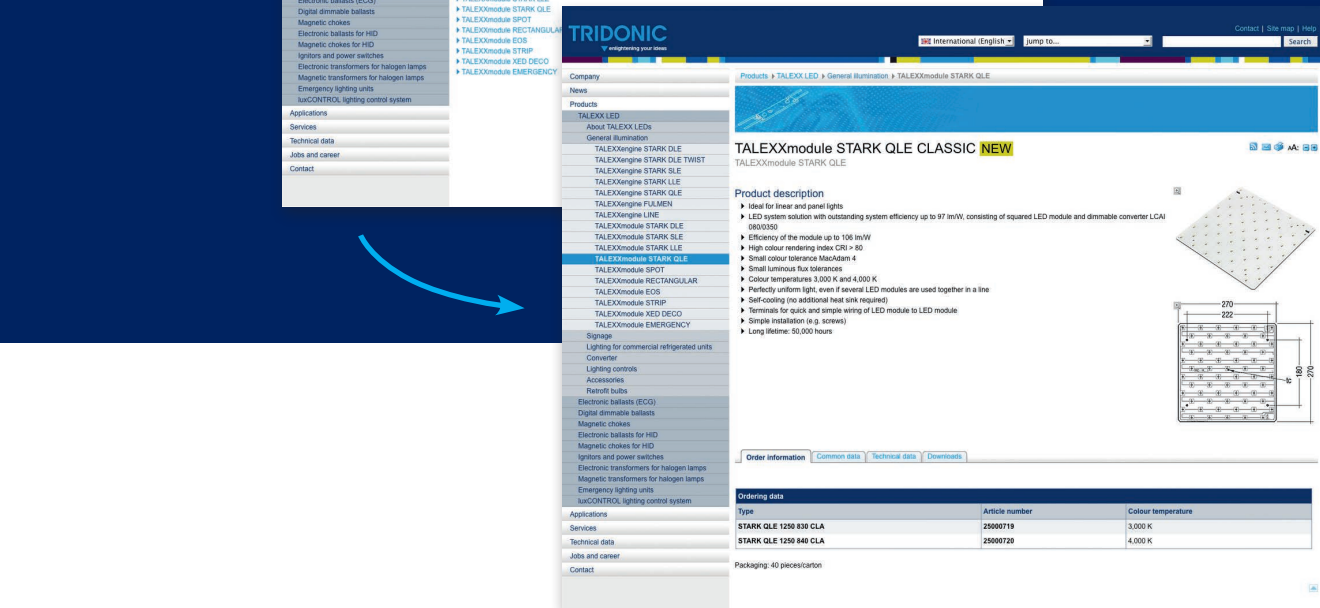
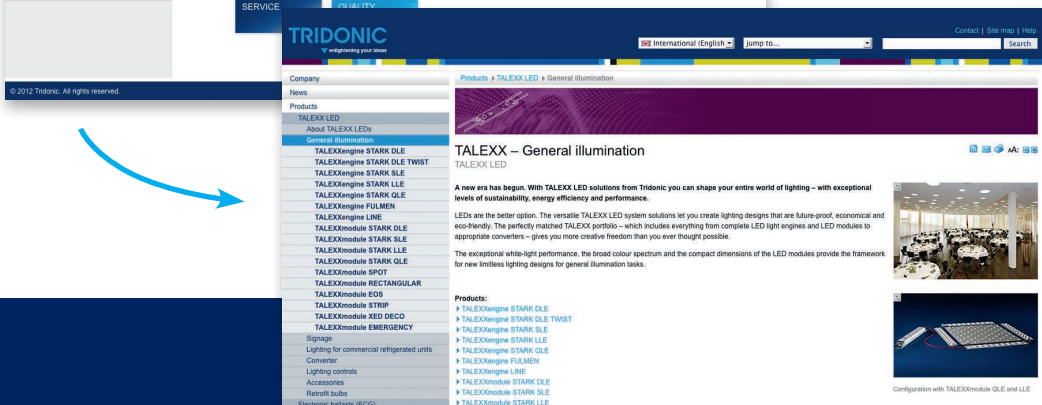
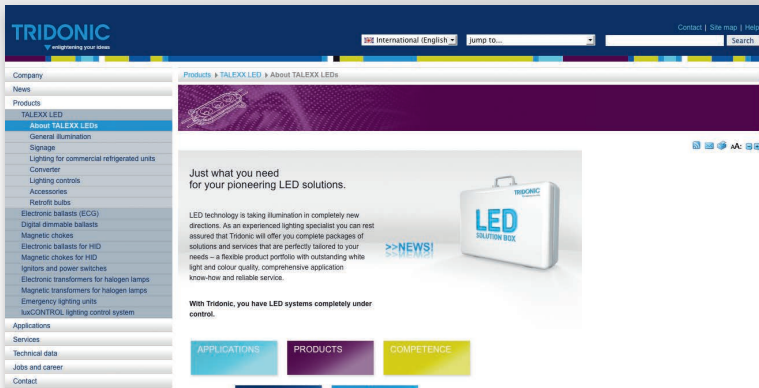
From LED light engines, chains and modules to converters, repeaters and sequencers plus all the necessary accessories, our compatible components are synonymous with ideal operating conditions and maximum efficiency. The components are perfectly matched to one another and are setting new standards in quality of light, durability and reliability, either in their own right or in systems.





Make sure you have all your LEDs under perfect control:

led.tridonic.com





Fluorescent lamps

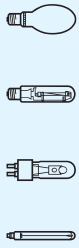


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## Product overview

**PC PRO**

Lamp types: T5, T8, TC-L, TC-F, TC-S,  
TC-D, TC-T, T5c

**Premium performance and lifetime**

- Exceptionally precise lamp operation thanks to xitec II
- Highest energy efficiency class A2 BAT
- Intelligent Voltage Guard (IVG)
- Versions for almost all fluorescent lamp types

**PC TOP**

Lamp types: T5, T8

**Optimised for standard applications**

- Meets the major market requirements
- Energy efficiency class A2
- Plug terminal for automatic wiring
- Available for T8 and now also for T5 fluorescent lamps

**PC TEC**

Lamp types: T5, T8

**All you need to operate a lamp safely**

- The ideal entry-level ECG
- Simple and compact
- Energy efficiency class A2/A3
- Reduced preheating



**PC INDUSTRY**

Lamp types: T5, T8

**Designed to resist – reliable under harshest conditions**

- For constant operation with a life of up to 200,000 hours
- Protected against power disruptions of up to 4,000 V
- Intelligent Voltage Guard (IVG)
- 8-year guarantee



**PC PRO-M**

Lamp types: T5, T8, TC-L, TC-F, T5c

**Multi-lamp management keeps your range lean**

- Intelligent lamp detection – 5 versions for more than 25 lamp types
- Greater flexibility for users, designers and manufacturers
- Easier logistics and storage
- Intelligent Voltage Guard (IVG)



**PC BASIC**

Lamp types: T5, T8, TC-L, TC-F, TC-S, TC-D, TC-T, T5c

**Small and flexible**

- Extra small dimensions for compact installations
- Suitable for almost all lamps from 5 to 26 W
- Energy efficiency class A2/A3
- Versions without casings are available as options



**Accessories**

**Mounting components**

- IP 44 KIT casing
- PC compact gear box

Product / function matrix



Benefits	Product characteristics	PC PRO
High efficiency	CELMA energy efficiency class	A2 BAT
	High-precision hot start for optimum lamp life	•
	Reduced pre-heating	
High level of safety	Intelligent Voltage Guard for continuous monitoring of mains voltage	•
	Safety shutdown of defective lamps	•
	Automatic shutdown in case of undervoltage	•
Competence in lamp operation	Intelligent detection of more than 25 lamp types	
	Number of starts without lamp replacement	50,000
	Compatible lamp types	
	High-precision lamp operation with tolerance adjustment	•
	Controlled lamp operation (lamp current, lamp wattage)	
	Lamp operation with fixed frequency	
	Automatic restart after lamp replacement	•
	Constant luminous flux even in case of mains fluctuations	•
High degree of flexibility	Use in emergency lighting installations (EN 50172)	•
	IDC terminal block for automatic wiring to ALF robot	•
	Plug-in terminal block for automatic wiring	
	Nominal life time at ta = 50 °C	up to 100,000 h <sup>①</sup>
	Failure rate	0.1 % / 1,000 h
	Ambient temperature range	-25 °C up to +80 °C <sup>①</sup>
	Mains voltage	220 – 240 V 0/50/60 Hz
High quality	Approval marks	
	Guarantee	5 years
	Sustainability (ecolution) <sup>②</sup>	

<sup>①</sup> depending on the model





<sup>②</sup> ecolution certification (for details see page 16)





PC TOP	PC TEC	PC INDUSTRY	PC PRO-M	PC BASIC
A2	A2/A3 <sup>①</sup>	A2	A2	A2/A3 <sup>①</sup>
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
30,000	bis 10,000 <sup>①</sup>	50,000	50,000	25,000
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
50,000 h	30,000 h	up to 200,000 h <sup>①</sup>	up to 100,000 h <sup>①</sup>	50,000 h
0.2 % / 1,000 h	0.3 % / 1,000 h	0.05 % / 1,000 h	0.1 % / 1,000 h	0.2 % / 1,000 h
-20 °C up to +55 °C	-10 °C up to +50 °C <sup>①</sup>	-30 °C up to +70 °C <sup>①</sup>	-25 °C up to +65 °C <sup>①</sup>	-25 °C up to +60 °C <sup>①</sup>
220 – 240 V 0/50/60 Hz	220 – 240 V 50/60 Hz	220 – 240 V 0/50/60 Hz	220 – 240 V 0/50/60 Hz	220 – 240 V 0/50/60 Hz
5 years	3 years	8 years	5 years	5 years

### Lamp matrix PC PRO linear

Series			T5 PRO														T8 PRO											
			Article number														Article number											
Type			Type														Type											
			Page														Page											
Lamp	W / mm	Cap																										
T5 	4 / 136	G5																										
	6 / 212	G5																										
	8 / 288	G5																										
	13 / 517	G5																										
	14 / 549	G5	•	•	•																							
	21 / 849	G5	•	•																								
	24 / 549	G5				•	•	•																				
	28 / 1,149	G5	•	•																								
	35 / 1,449	G5	•	•																								
	39 / 849	G5							•	•																		
	49 / 1,449	G5									•	•																
	54 / 1,149	G5										•	•															
	80 / 1,449	G5												•	•													
T8 	18 / 590	G13												•	•	•	•											
	30 / 895	G13															•	•										
	36 / 1,200	G13																	•	•						•		
	38 / 1,047	G13																			•	•	•					
	58 / 1,500	G13																					•	•				
	70 / 1,800	G13																						•	•			
TC-L 	18	2G11																										
	24	2G11																										
	TC-L HE	28	2GX11	•	•																							
	TC-L	36	2G11																									
	TC-L	40	2G11																									
	TC-L	55	2G11															•	•									
	TC-L	80	2G11																									
TC-F 	18	2G10																										
	24	2G10																										
	36	2G10																										

• ENEC    ▼ VDE    ○ only single lamp operation possible







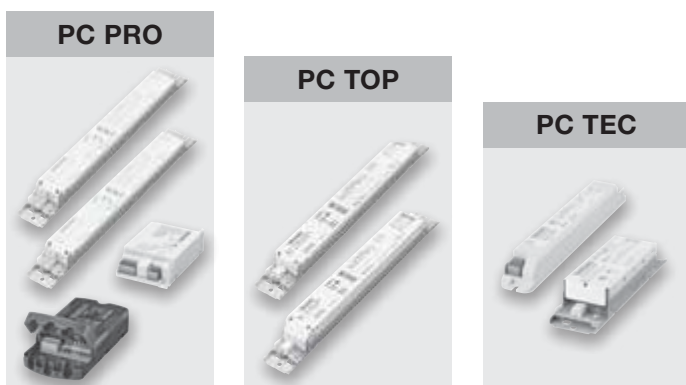






## Fixed-output electronic ballasts for fluorescent lamps

With the new generation of electronic ballasts, Tridonic has achieved a new level of reliability: never before has it been so easy to extend the functions and increase the service life of fluorescent lamps and luminaires. An intelligent variety of products means the right solution for every application.



The wide portfolio of products covers all applications with T5, T8 and compact fluorescent lamps. Apart from their reliability, of course, the common denominator of all the members of this family is their high energy efficiency.

PC PRO, PC TOP and PC TEC are three different product families in the standard Tridonic product portfolio for meeting individual market requirements.

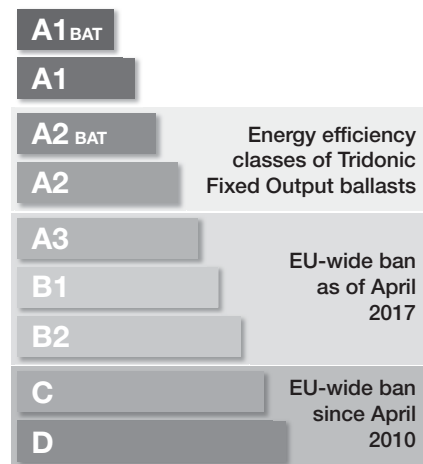
The PC INDUSTRY, PC PRO-M and PC BASIC product groups are available for special requirements and applications.

### Impressive economy and efficiency

Electronic control gear (ECG) operates lamps with high-frequency voltages and currents (over 40 kHz). Compared with magnetic ballasts, which usually operate at 50 or 60 Hz, they produce greater luminous flux (around 10 % higher).

Or put another way, to produce the same luminous flux they need 10 % lower lamp wattage. Another argument for the high economy of ECGs is their low power loss. It is less than 10 % of lamp output. The low thermal output of the devices helps reduce the luminaire temperature and increase the efficiency of the luminaire. Overall, a luminaire system with ECGs therefore consumes up to 25 % less energy than a system with magnetic ballasts.

In Europe, magnetic ballasts for fluorescent lamps will be generally banned from sale from 2017 onwards.



The new generation of ECGs has been designed to reduce the power losses during operation still further and also optimise the overall energy balance of the ballast from manufacture to disposal.

They have been placed in energy efficiency classes A2 BAT, A2 and A3, which means they keep the energy consumption of the luminaires they operate to a minimum. The sustainability of the various Tridonic electronic ballasts is also rated with “ecolution points” in the functional overview. (For details see page 8)



### Gentle hot restart and long life

ECGs provide the basis for reliable lamp operation with preheating of the lamp electrodes in accordance with the manufacturer’s specifications, a sufficiently high ignition voltage and limitation of the lamp discharge current. Hot restarts under defined conditions protect the lamps and increase their life significantly compared with magnetic starter operation. Luminaires operated on innovative control gear from Tridonic can therefore be used in conjunction with presence sensors.

Hot restarts reduce the cost of replacing the lamps and also reduce the cost of maintaining the lighting system thanks to longer maintenance intervals. High-quality components, intelligent circuit design and extensive testing under rated conditions give ballasts from Tridonic their special character. The average life of PC PRO devices for example is up to 100,000 hours at a reliability of more than 90 %. This means that for every 1,000 hours of operation the nominal failure rate is only 0.1 %.

### Lighting comfort and quality

High-frequency operation of fluorescent lamps improves the quality of light and makes the lighting more comfortable on the eye. There is no flickering during operation, and therefore no stroboscopic effects.

x!tec II processor technology, specially developed by Tridonic, offers added value and increases flexibility. The new x!tec II ASIC is an in-house innovation that enables us to react quickly to market developments and customer requirements.





The new generation of chips takes us to a new level of precision in lamp operation – thanks to the intelligent balancing of the various operating parameters.

Standard ballasts generally have a fixed operating point. All the tolerances of the electronic components add up and cannot be compensated. x!tec II solves this problem: Each device that leaves the factory is checked and precisely adjusted. This ensures that the individual components with their different tolerances are perfectly matched to one another. Based on these exact operating parameters, the electronic chip can now operate the lamp with the maximum possible precision.

The greater integration of functions means that the number of components needed can be further reduced. This in turn cuts down on possible sources of errors and improves the reliability of the devices.

The ASIC is also responsible for disconnecting a lamp automatically from the power supply if the lamp develops a fault or comes to the end of its life. The device does not waste energy on futile ignition attempts and therefore does not cause any problems with flickering. Replacement lamps are automatically started.

### **Emergency lighting systems**

Most electronic PC ballasts can be operated on AC or DC voltage and can be used in emergency luminaires in accordance with EN 50172. This means there is no need for a separate emergency lighting system.

### **Constant high quality**

The consistently high quality and reliability of the Tridonic PC ballasts is guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture ensures constant reproducible quality. All the ballasts are subjected to 100 % final testing and safety testing.

### **Lamp matrix**

Which control gear for which lamp?

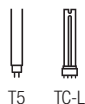
The latest lamp matrix is available on the internet: [www.tridonic.com](http://www.tridonic.com), menu “Technical data”, submenu “Lamp matrix”

### **Technical information**

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu “Technical data”, submenu “Data sheets”

### **Personal enquiries**

A form for personal enquiries is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu “Contact”, submenu “Contact form”

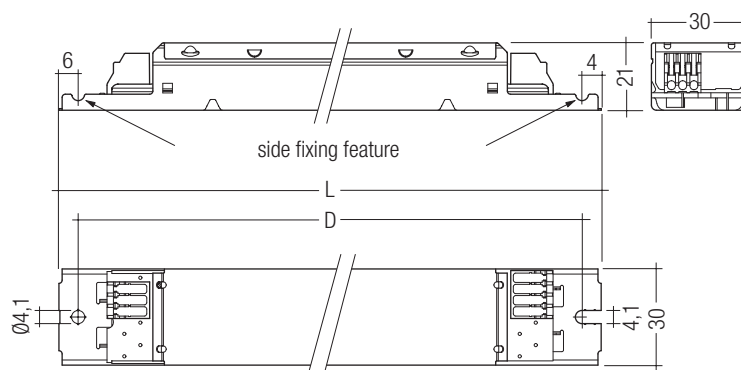


NEW

PC T5 PRO Ip, PC TCL PRO Ip, 14 – 80 W  
PC PRO

### Product description

- Highest CELMA Energy Efficiency Index A2 BAT
  - Nominal life time up to 100,000 h (at ta 50 °C with a failure rate max. 0.1 % per 1,000 h)
  - Large temperature range (for values see table)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Precise lamp operation using adjustment of lamp parameters
  - Advanced SMART-Heating for min. 50,000 starts without replacement of lamps
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - Designed for THD < 10 %
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life (EOL 2)
  - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



### Technical data

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start $\geq$ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	$\leq$ 1.5 s
Operating frequency	$\geq$ 39.5 kHz
Type of protection	IP20

### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x14-35 T5 PRO Ip	22185147	10 pieces	960 pieces	0.165 kg
PC 1x24 T5 PRO Ip	22185149	10 pieces	960 pieces	0.165 kg
PC 1x39 T5 PRO Ip	22185151	10 pieces	960 pieces	0.165 kg
PC 1x49 T5 PRO Ip	22185153	10 pieces	960 pieces	0.170 kg
PC 1x54 T5 PRO Ip	22185155	10 pieces	960 pieces	0.170 kg
PC 1x80 T5 PRO Ip	22185209	10 pieces	960 pieces	0.200 kg
<b>For luminaires with 2 lamps</b>				
PC 2x14-35 T5 PRO Ip	22185148	10 pieces	760 pieces	0.245 kg
PC 2x24 T5 PRO Ip	22185150	10 pieces	760 pieces	0.210 kg
PC 2x39 T5 PRO Ip	22185152	10 pieces	760 pieces	0.235 kg
PC 2x49 T5 PRO Ip	22185154	10 pieces	760 pieces	0.250 kg
PC 2x54 T5 PRO Ip	22185156	10 pieces	760 pieces	0.245 kg
PC 2x55 TCL PRO Ip	22185286	10 pieces	760 pieces	0.245 kg
PC 2x80 T5 PRO Ip	22185210	10 pieces	640 pieces	0.335 kg
<b>For luminaires with 3 or 4 lamps</b>				
PC 3/4x14 T5 PRO Ip	22185211	10 pieces	760 pieces	0.245 kg
PC 3/4x24 T5 PRO Ip	22185212	10 pieces	760 pieces	0.250 kg



Product / function matrix, page 8

Lamp matrix, page 10

Wiring diagrams and installation examples, page 50

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
									220 V	240 V	220 V	240 V			
<b>For luminaires with 1 lamp</b>															
1 x 14 W	T5	PC 1x14-35 T5 PRO Ip	22185147	280 x 30 x 21 mm	270 mm	14.7 W	16.7 W	A2 BAT	0.075 A	0.069 A	0.97	0.95	85 °C	-25 ... 80 °C	80/75 °C
1 x 21 W	T5	PC 1x14-35 T5 PRO Ip	22185147	280 x 30 x 21 mm	270 mm	20.6 W	22.4 W	A2 BAT	0.101 A	0.092 A	0.97	0.95	85 °C	-25 ... 75 °C	80/70 °C
1 x 28 W	T5	PC 1x14-35 T5 PRO Ip	22185147	280 x 30 x 21 mm	270 mm	27.9 W	30.4 W	A2 BAT	0.137 A	0.123 A	0.98	0.96	85 °C	-25 ... 75 °C	80/70 °C
1 x 35 W	T5	PC 1x14-35 T5 PRO Ip	22185147	280 x 30 x 21 mm	270 mm	35.5 W	37.8 W	A2 BAT	0.170 A	0.153 A	0.99	0.97	80 °C	-25 ... 65 °C	80/60 °C
1 x 24 W	T5	PC 1x24 T5 PRO Ip	22185149	280 x 30 x 21 mm	270 mm	22.5 W	24.8 W	A2 BAT	0.110 A	0.100 A	0.98	0.96	80 °C	-25 ... 70 °C	75/65 °C
1 x 39 W	T5	PC 1x39 T5 PRO Ip	22185151	280 x 30 x 21 mm	270 mm	38.0 W	40.2 W	A2 BAT	0.185 A	0.166 A	0.98	0.96	85 °C	-25 ... 70 °C	75/60 °C
1 x 49 W	T5	PC 1x49 T5 PRO Ip	22185153	280 x 30 x 21 mm	270 mm	49.2 W	52.2 W	A2 BAT	0.235 A	0.211 A	0.98	0.96	80 °C	-25 ... 60 °C	75/55 °C
1 x 54 W	T5	PC 1x54 T5 PRO Ip	22185155	280 x 30 x 21 mm	270 mm	54.1 W	57.0 W	A2 BAT	0.254 A	0.230 A	0.98	0.96	80 °C	-25 ... 60 °C	70/50 °C
1 x 80 W	T5	PC 1x80 T5 PRO Ip	22185209	280 x 30 x 21 mm	270 mm	79.8 W	85.4 W	A2 BAT	0.396 A	0.363 A	0.99	0.97	80 °C	-25 ... 60 °C	75/55 °C
1 x 55 W	TC-L	PC 1x80 T5 PRO Ip	22185209	280 x 30 x 21 mm	270 mm	55.0 W	58.9 W	A2 BAT	0.273 A	0.250 A	0.99	0.97	80 °C	-25 ... 65 °C	75/60 °C
<b>For luminaires with 2 lamps</b>															
2 x 14 W	T5	PC 2x14-35 T5 PRO Ip	22185148	360 x 30 x 21 mm	350 mm	29.4 W	32.2 W	A2 BAT	0.143 A	0.130 A	0.97	0.95	85 °C	-25 ... 75 °C	80/70 °C
2 x 21 W	T5	PC 2x14-35 T5 PRO Ip	22185148	360 x 30 x 21 mm	350 mm	41.2 W	46.2 W	A2 BAT	0.204 A	0.186 A	0.97	0.95	85 °C	-25 ... 70 °C	80/65 °C
2 x 28 W	T5	PC 2x14-35 T5 PRO Ip	22185148	360 x 30 x 21 mm	350 mm	55.8 W	60.2 W	A2 BAT	0.277 A	0.249 A	0.98	0.96	80 °C	-25 ... 60 °C	75/55 °C
2 x 35 W	T5	PC 2x14-35 T5 PRO Ip	22185148	360 x 30 x 21 mm	350 mm	71.0 W	76.0 W	A2 BAT	0.342 A	0.309 A	0.99	0.97	80 °C	-25 ... 55 °C	75/50 °C
2 x 24 W	T5	PC 2x24 T5 PRO Ip	22185150	360 x 30 x 21 mm	350 mm	45.0 W	48.5 W	A2 BAT	0.218 A	0.196 A	0.98	0.96	85 °C	-25 ... 70 °C	75/60 °C
2 x 39 W	T5	PC 2x39 T5 PRO Ip	22185152	360 x 30 x 21 mm	350 mm	76.0 W	83.2 W	A2 BAT	0.371 A	0.333 A	0.98	0.96	80 °C	-25 ... 60 °C	70/50 °C
2 x 49 W	T5	PC 2x49 T5 PRO Ip	22185154	360 x 30 x 21 mm	350 mm	98.4 W	106.0 W	A2 BAT	0.477 A	0.428 A	0.99	0.97	80 °C	-25 ... 55 °C	75/50 °C
2 x 54 W	T5	PC 2x54 T5 PRO Ip	22185156	360 x 30 x 21 mm	350 mm	108.2 W	113.5 W	A2 BAT	0.518 A	0.465 A	0.99	0.97	80 °C	-25 ... 55 °C	75/50 °C
2 x 55 W	TC-L	PC 2x55 TCL PRO Ip	22185286	360 x 30 x 21 mm	350 mm	110.0 W	119.0 W	A2 BAT	0.536 A	0.491 A	0.99	0.99	80 °C	-25 ... 55 °C	75/50 °C
2 x 80 W	T5	PC 2x80 T5 PRO Ip	22185210	425 x 30 x 21 mm	415 mm	159.6 W	171.4 W	A2 BAT	0.787 A	0.721 A	0.99	0.98	85 °C	-25 ... 55 °C	80/50 °C
<b>For luminaires with 3 or 4 lamps</b>															
3 x 14 W	T5	PC 3/4x14 T5 PRO Ip	22185211	360 x 30 x 21 mm	350 mm	42.0 W	47.0 W	A2 BAT	0.218 A	0.200 A	0.99	0.97	75 °C	-25 ... 60 °C	70/55 °C
4 x 14 W	T5	PC 3/4x14 T5 PRO Ip	22185211	360 x 30 x 21 mm	350 mm	53.2 W	61.7 W	A2 BAT	0.292 A	0.268 A	0.99	0.97	75 °C	-25 ... 55 °C	70/50 °C
3 x 24 W	T5	PC 3/4x24 T5 PRO Ip	22185212	360 x 30 x 21 mm	350 mm	70.9 W	75.0 W	A2 BAT	0.348 A	0.319 A	0.99	0.97	80 °C	-25 ... 60 °C	75/55 °C
4 x 24 W	T5	PC 3/4x24 T5 PRO Ip	22185212	360 x 30 x 21 mm	350 mm	90.0 W	97.5 W	A2 BAT	0.452 A	0.415 A	0.99	0.97	80 °C	-25 ... 55 °C	75/50 °C





NEW

PC T8 PRO sl, 18 – 58 W  
PC PRO

**Product description**

- Highest possible energy class CELMA EEI = A2 BAT
  - Nominal life time up to 100,000 h (at ta 50 °C with a failure rate max. 0.1 % per 1,000 h)
  - Large temperature range (for values see table)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Precise lamp operation using adjustment of lamp parameters
  - Advanced SMART-Heating for min. 50,000 starts without replacement of lamps
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - Designed for THD < 10 %
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life (EOL 2)
  - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Fig. 1

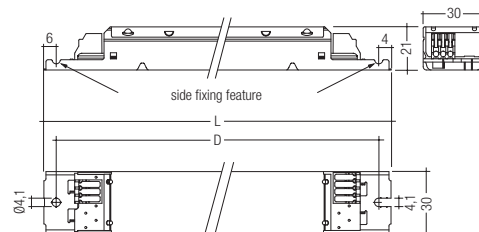
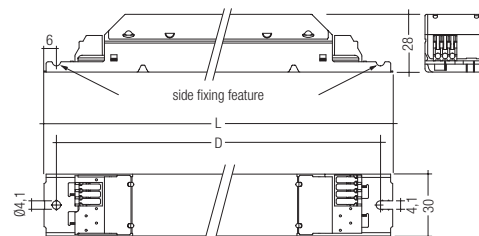


Fig. 2



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Figure	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>					
PC 1x18 T8 PRO lp	22185213	1	10 pieces	1,900 pieces	0.146 kg
PC 1x36 T8 PRO lp	22185214	1	10 pieces	1,900 pieces	0.146 kg
PC 1x58 T8 PRO lp	22185215	1	10 pieces	1,900 pieces	0.146 kg
<b>For luminaires with 2 lamps</b>					
PC 2x18 T8 PRO lp	22185216	1	10 pieces	1,600 pieces	0.170 kg
PC 2x36 T8 PRO sl	22185217	2	10 pieces	1,600 pieces	0.214 kg
PC 2x58 T8 PRO sl	22185218	2	10 pieces	1,600 pieces	0.214 kg
<b>For luminaires with 3 or 4 lamps</b>					
PC 3/4x18 T8 PRO lp	22185219	1	10 pieces	960 pieces	0.190 kg



Product / function matrix, page 8

Lamp matrix, page 10

Wiring diagrams and installation examples, page 50

**Specific technical data**

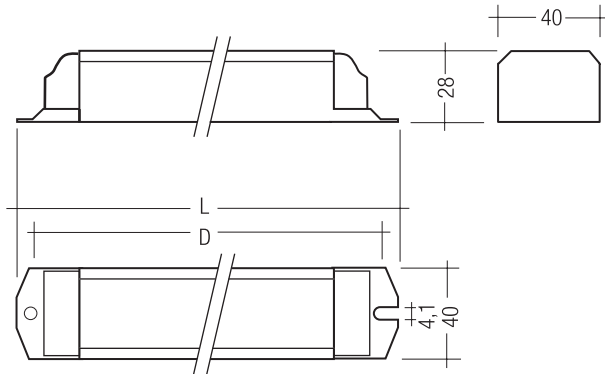
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
									220 V	240 V	220 V	240 V			
<b>For luminaires with 1 lamp</b>															
1 x 18 W	T8	PC 1x18 T8 PRO lp	22185213	230 x 30 x 21 mm	220 mm	16 W	18.3 W	A2 BAT	0.081 A	0.073 A	0.98	0.96	80 °C	-25 ... 70 °C	75/65 °C
1 x 36 W	T8	PC 1x36 T8 PRO lp	22185214	230 x 30 x 21 mm	220 mm	32 W	35.2 W	A2 BAT	0.158 A	0.142 A	0.99	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 58 W	T8	PC 1x58 T8 PRO lp	22185215	230 x 30 x 21 mm	220 mm	50 W	54.5 W	A2 BAT	0.245 A	0.220 A	0.99	0.97	70 °C	-25 ... 55 °C	65/50 °C
<b>For luminaires with 2 lamps</b>															
2 x 18 W	T8	PC 2x18 T8 PRO lp	22185216	280 x 30 x 21 mm	270 mm	32 W	35.3 W	A2 BAT	0.159 A	0.143 A	0.99	0.97	80 °C	-25 ... 70 °C	75/65 °C
2 x 36 W	T8	PC 2x36 T8 PRO sl	22185217	280 x 30 x 28 mm	270 mm	64 W	71.1 W	A2 BAT	0.320 A	0.293 A	0.99	0.98	75 °C	-25 ... 60 °C	75/60 °C
2 x 58 W	T8	PC 2x58 T8 PRO sl	22185218	280 x 30 x 28 mm	270 mm	100 W	109.0 W	A2 BAT	0.490 A	0.445 A	0.99	0.98	75 °C	-25 ... 55 °C	70/50 °C
<b>For luminaires with 3 or 4 lamps</b>															
3 x 18 W	T8	PC 3/4x18 T8 PRO lp	22185219	280 x 30 x 21 mm	270 mm	50.4 W	53.2 W	A2 BAT	0.239 A	0.217 A	0.99	0.97	80 °C	-25 ... 60 °C	75/60 °C
4 x 18 W	T8	PC 3/4x18 T8 PRO lp	22185219	280 x 30 x 21 mm	270 mm	64.0 W	69.2 W	A2 BAT	0.311 A	0.280 A	0.99	0.97	80 °C	-25 ... 60 °C	75/60 °C



**PC T8 PRO, 30 – 70 W**  
PC PRO

**Product description**

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start $\geq$ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	$\leq$ 1.5 s
Operating frequency	$\geq$ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1/30 T8 PRO	22176077	10 pieces	630 pieces	0.28 kg
PC 1/70 T8 PRO	22176171	10 pieces	630 pieces	0.20 kg
<b>For luminaires with 2 lamps</b>				
PC 2/30 T8 PRO	22176078	10 pieces	630 pieces	0.28 kg
PC 2/70 T8 PRO	22176232	10 pieces	420 pieces	0.32 kg
<b>For luminaires with 3 lamps</b>				
PC 3/36 T8 PRO	22176231	10 pieces	420 pieces	0.31 kg



Product / function matrix, page 8

Lamp matrix, page 10

Wiring diagrams and installation examples, page 50

**Specific technical data**

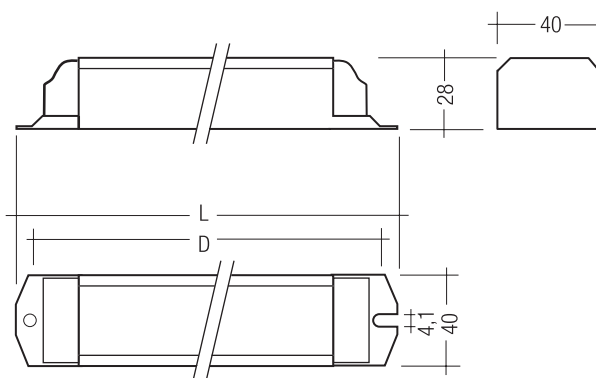
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		$\lambda$ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 30 W	T8	PC 1/30 T8 PRO	22176077	234 x 40 x 28 mm	220 mm	24 W	28.0 W	A2	0.13 A	0.12 A	0.97	0.96	75 °C	-25 ... 60 °C
1 x 70 W	T8	PC 1/70 T8 PRO	22176171	234 x 40 x 28 mm	220 mm	60 W	65.6 W	A2	0.30 A	0.28 A	0.99	0.98	75 °C	-25 ... 55 °C
<b>For luminaires with 2 lamps</b>														
2 x 30 W	T8	PC 2/30 T8 PRO	22176078	234 x 40 x 28 mm	220 mm	50 W	56.0 W	A2	0.26 A	0.24 A	0.97	0.96	75 °C	-25 ... 60 °C
2 x 70 W	T8	PC 2/70 T8 PRO	22176232	360 x 40 x 28 mm	350 mm	120 W	136.8 W	A2	0.62 A	0.57 A	0.99	0.99	70 °C	-25 ... 50 °C
<b>For luminaires with 3 lamps</b>														
3 x 36 W	T8	PC 3/36 T8 PRO	22176231	360 x 40 x 28 mm	350 mm	96 W	106.5 W	A2	0.51 A	0.47 A	0.99	0.98	70 °C	-25 ... 50 °C



**PC T8 PRO sc, 36 – 58 W**  
PC PRO

**Product description**

- CELMA Energy Efficiency Index A3
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1/36 T8 PRO sc	89800008	25 pieces	1,250 pieces	0.15 kg
PC 1/58 T8 PRO sc	89800009	25 pieces	1,250 pieces	0.15 kg



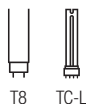
Product / function matrix, page 8

Lamp matrix, page 10

Wiring diagrams and installation examples, page 50

**Specific technical data**

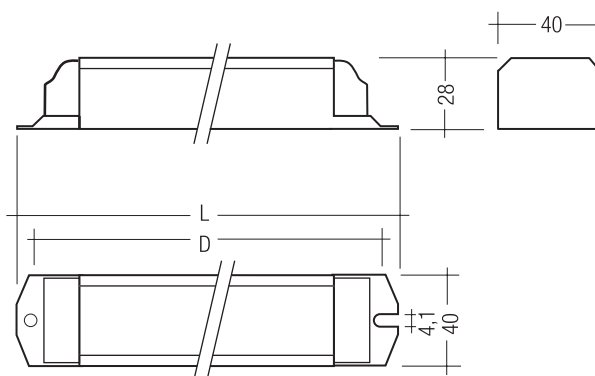
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 36 W	T8	PC 1/36 T8 PRO sc	89800008	150 x 40 x 28 mm	139 mm	31.8 W	37.1 W	A3	0.17 A	0.16 A	0.96	0.95	80 °C	-25 ... 60 °C
1 x 58 W	T8	PC 1/58 T8 PRO sc	89800009	150 x 40 x 28 mm	139 mm	48.7 W	56.0 W	A3	0.25 A	0.25 A	0.97	0.97	85 °C	-25 ... 60 °C



**PC TCL PRO, 18 – 55 W**  
PC PRO

**Product description**

- CELMA Energy Efficiency Index A2 / A3
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start $\geq$ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	$\leq$ 1.5 s
Operating frequency	$\geq$ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1/18/24 TCL PRO	22176068	10 pieces	630 pieces	0.28 kg
PC 1/36 TCL PRO	22176141	10 pieces	630 pieces	0.18 kg
PC 1/40 TCL PRO	22176142	10 pieces	630 pieces	0.18 kg
PC 1/55 TCL PRO	22176169	10 pieces	630 pieces	0.20 kg
<b>For luminaires with 2 lamps</b>				
PC 2/18/24 TCL PRO	22176069	10 pieces	630 pieces	0.28 kg
PC 2/36 TCL PRO	22176170	10 pieces	630 pieces	0.22 kg
PC 2/40 TCL PRO	22176143	10 pieces	630 pieces	0.22 kg
PC 2/55 TCL PRO	22176233	10 pieces	420 pieces	0.30 kg



Product / function matrix, page 8

Lamp matrix, page 12

Wiring diagrams and installation examples, page 50

**Specific technical data**

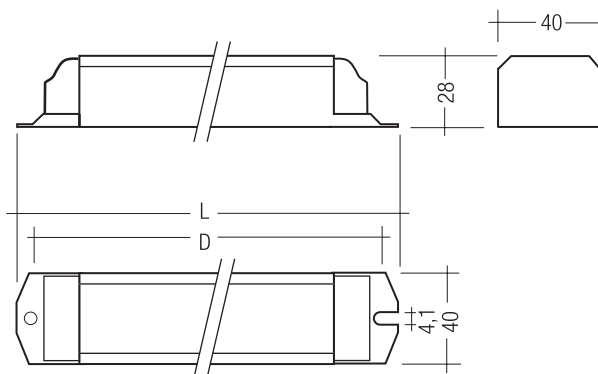
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 18 W	TC-L	PC 1/18/24 TCL PRO	22176068	234 x 40 x 28 mm	220 mm	16 W	18.5 W	A3	0.09 A	0.08 A	0.96	0.94	75 °C	-25 ... 60 °C
1 x 24 W	TC-L	PC 1/18/24 TCL PRO	22176068	234 x 40 x 28 mm	220 mm	22 W	25.0 W	A3	0.12 A	0.11 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 38 W	T8	PC 1/36 TCL PRO	22176141	234 x 40 x 28 mm	220 mm	32 W	34.2 W	A2	0.16 A	0.14 A	0.99	0.98	70 °C	-25 ... 60 °C
1 x 36 W	TC-L	PC 1/36 TCL PRO	22176141	234 x 40 x 28 mm	220 mm	32 W	33.8 W	A2	0.16 A	0.14 A	0.99	0.98	70 °C	-25 ... 60 °C
1 x 40 W	TC-L	PC 1/40 TCL PRO	22176142	234 x 40 x 28 mm	220 mm	40 W	44.1 W	A2	0.20 A	0.19 A	0.99	0.98	70 °C	-25 ... 60 °C
1 x 55 W	TC-L	PC 1/55 TCL PRO	22176169	234 x 40 x 28 mm	220 mm	55 W	61.1 W	A2	0.28 A	0.26 A	0.98	0.98	75 °C	-25 ... 55 °C
<b>For luminaires with 2 lamps</b>														
2 x 18 W	TC-L	PC 2/18/24 TCL PRO	22176069	234 x 40 x 28 mm	220 mm	32 W	36.0 W	A2	0.17 A	0.16 A	0.98	0.96	75 °C	-25 ... 60 °C
2 x 24 W	TC-L	PC 2/18/24 TCL PRO	22176069	234 x 40 x 28 mm	220 mm	44 W	49.0 W	A2	0.22 A	0.21 A	0.99	0.97	75 °C	-25 ... 60 °C
2 x 38 W	T8	PC 2/36 TCL PRO	22176170	234 x 40 x 28 mm	220 mm	64 W	72.6 W	A2	0.34 A	0.31 A	0.98	0.98	75 °C	-25 ... 50 °C
2 x 36 W	TC-L	PC 2/36 TCL PRO	22176170	234 x 40 x 28 mm	220 mm	64 W	72.8 W	A2	0.34 A	0.31 A	0.98	0.98	75 °C	-25 ... 50 °C
2 x 40 W	TC-L	PC 2/40 TCL PRO	22176143	234 x 40 x 28 mm	220 mm	80 W	89.6 W	A2	0.42 A	0.38 A	0.99	0.98	75 °C	-25 ... 55 °C
2 x 55 W	TC-L	PC 2/55 TCL PRO	22176233	360 x 40 x 28 mm	350 mm	110 W	121.1 W	A2	0.56 A	0.52 A	0.99	0.99	70 °C	-25 ... 50 °C



**PC DD PRO sc, 28 – 55 W**  
PC PRO

**Product description**

- CELMA Energy Efficiency Index A2 / A3
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start $\geq$ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	$\leq$ 1.5 s
Operating frequency	$\geq$ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1/28 DD PRO sc	89800004	25 pieces	1,250 pieces	0.15 kg
PC 1/38 DD PRO sc	89800005	25 pieces	1,250 pieces	0.15 kg
PC 1/55 DD PRO sc	89800006	25 pieces	1,250 pieces	0.16 kg



Product / function matrix, page 8

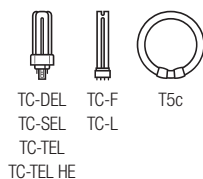
Lamp matrix, page 12

Wiring diagrams and installation examples, page 50

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		$\lambda$ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 28 W	TC-DD	PC 1/28 DD PRO sc	89800004	150 x 40 x 28 mm	139 mm	25.4 W	28.7 W	A3	0.14 A	0.12 A	0.95	0.95	85 °C	-25 ... 60 °C
1 x 38 W	TC-DD	PC 1/38 DD PRO sc	89800005	150 x 40 x 28 mm	139 mm	34.6 W	39.7 W	A3	0.19 A	0.17 A	0.96	0.96	85 °C	-25 ... 60 °C
1 x 55 W	TC-DD	PC 1/55 DD PRO sc	89800006	150 x 40 x 28 mm	139 mm	53.0 W	60.0 W	A2	0.28 A	0.24 A	0.98	0.98	80 °C	-25 ... 60 °C

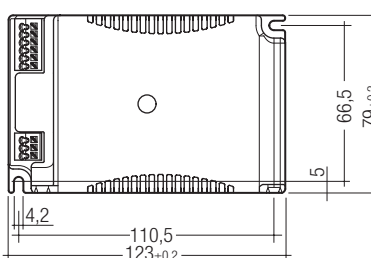
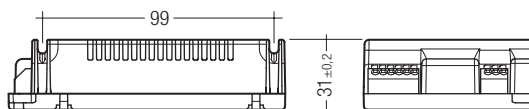
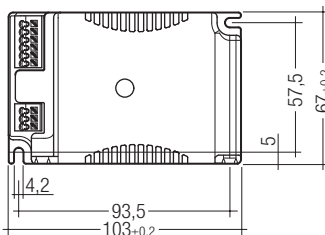
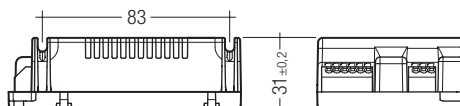




**PC TC PRO, 1/2x9 – 70 W**  
PC PRO

**Product description**

- CELMA Energy Efficiency Index A2 BAT / A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Devices can operate either 1 or 2 lamps
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life (EOL 2)
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.6 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Product / function matrix, page 8

Lamp matrix, page 12

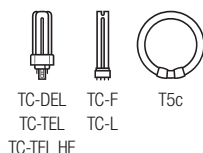
Wiring diagrams and installation examples, page 50

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x57/70 TC PRO	22176409	10 pieces	500 pieces	0.16 kg
<b>For luminaires with 1 or 2 lamps</b>				
PC 1/2x9-13 TC PRO	22176405	15 pieces	750 pieces	0.12 kg
PC 1/2x11-17 TC PRO	22176406	15 pieces	750 pieces	0.13 kg
PC 1/2x18 TC PRO	22176407	15 pieces	750 pieces	0.12 kg
PC 1/2x26-42 TC PRO	22176408	15 pieces	750 pieces	0.13 kg
<b>For luminaires with 2 lamps</b>				
PC 2x26-42 TC PRO	22176410	10 pieces	500 pieces	0.17 kg

Specific technical data

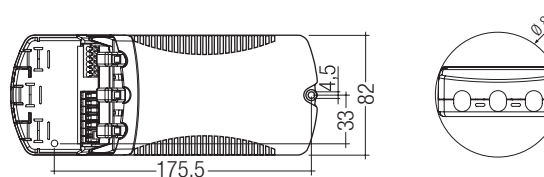
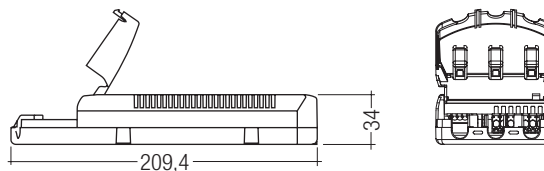
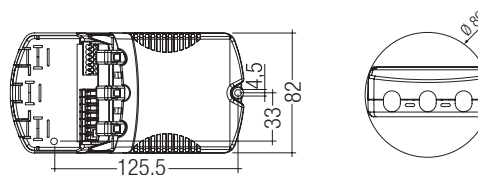
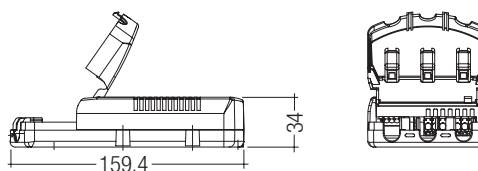
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
								220 V	240 V	220 V	240 V			
<b>For luminaires with 1 lamp</b>														
1 x 57 W	TC-TEL	PC 1x57/70 TC PRO	22176409	123 x 79 x 31 mm	56.0 W	58.6 W	A2 BAT	0.272 A	0.250 A	0.98	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 70 W	TC-TEL	PC 1x57/70 TC PRO	22176409	123 x 79 x 31 mm	70.0 W	73.2 W	A2 BAT	0.334 A	0.306 A	0.98	0.98	75 °C	-25 ... 65 °C	65/55 °C
<b>For luminaires with 1 or 2 lamps</b>														
1 x 10 W	TC-DEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	9.5 W	11.0 W	A2 BAT	0.055 A	0.051 A	0.91	0.89	75 °C	-25 ... 70 °C	70/65 °C
2 x 10 W	TC-DEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	19.0 W	21.0 W	A2 BAT	0.099 A	0.091 A	0.97	0.95	75 °C	-25 ... 70 °C	70/65 °C
1 x 13 W	TC-DEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	12.5 W	15.1 W	A2 BAT	0.073 A	0.067 A	0.94	0.92	75 °C	-25 ... 70 °C	70/65 °C
2 x 13 W	TC-DEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	25.0 W	29.9 W	A2 BAT	0.139 A	0.127 A	0.98	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 9 W	TC-SEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	8.0 W	9.8 W	A2	0.050 A	0.046 A	0.90	0.87	75 °C	-25 ... 70 °C	70/65 °C
2 x 9 W	TC-SEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	16.0 W	18.9 W	A2 BAT	0.090 A	0.082 A	0.96	0.94	75 °C	-25 ... 70 °C	70/65 °C
1 x 11 W	TC-SEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	11.0 W	13.9 W	A2 BAT	0.068 A	0.062 A	0.94	0.92	75 °C	-25 ... 70 °C	70/65 °C
2 x 11 W	TC-SEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	22.0 W	27.6 W	A2 BAT	0.129 A	0.118 A	0.98	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 13 W	TC-SEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	12.5 W	14.4 W	A2 BAT	0.070 A	0.064 A	0.95	0.93	75 °C	-25 ... 70 °C	70/65 °C
2 x 13 W	TC-TEL	PC 1/2x9-13 TC PRO	22176405	103 x 67 x 31 mm	25.0 W	27.9 W	A2 BAT	0.130 A	0.119 A	0.98	0.98	75 °C	-25 ... 65 °C	70/60 °C
1 x 11 W	TC-TEL HE	PC 1/2x11-17 TC PRO	22176406	103 x 67 x 31 mm	12.0 W	13.5 W	A2 BAT	0.066 A	0.061 A	0.93	0.91	80 °C	-25 ... 70 °C	75/65 °C
2 x 11 W	TC-TEL HE	PC 1/2x11-17 TC PRO	22176406	103 x 67 x 31 mm	24.5 W	27.3 W	A2 BAT	0.127 A	0.116 A	0.98	0.97	75 °C	-25 ... 60 °C	75/60 °C
1 x 14 W	TC-TEL HE	PC 1/2x11-17 TC PRO	22176406	103 x 67 x 31 mm	15.5 W	16.7 W	A2	0.080 A	0.074 A	0.95	0.93	80 °C	-25 ... 70 °C	75/65 °C
2 x 14 W	TC-TEL HE	PC 1/2x11-17 TC PRO	22176406	103 x 67 x 31 mm	32.0 W	33.9 W	A2 BAT	0.157 A	0.144 A	0.98	0.98	75 °C	-25 ... 60 °C	75/60 °C
1 x 17 W	TC-TEL HE	PC 1/2x11-17 TC PRO	22176406	103 x 67 x 31 mm	18.6 W	19.5 W	A2 BAT	0.094 A	0.086 A	0.96	0.95	80 °C	-25 ... 70 °C	75/65 °C
2 x 17 W	TC-TEL HE	PC 1/2x11-17 TC PRO	22176406	103 x 67 x 31 mm	37.8 W	40.0 W	A2 BAT	0.186 A	0.171 A	0.99	0.98	75 °C	-25 ... 60 °C	75/60 °C
1 x 18 W	TC-DEL	PC 1/2x18 TC PRO	22176407	103 x 67 x 31 mm	16.7 W	18.7 W	A2 BAT	0.090 A	0.082 A	0.95	0.94	75 °C	-25 ... 70 °C	75/70 °C
2 x 18 W	TC-DEL	PC 1/2x18 TC PRO	22176407	103 x 67 x 31 mm	33.6 W	36.5 W	A2 BAT	0.170 A	0.156 A	0.98	0.98	75 °C	-25 ... 65 °C	70/60 °C
1 x 18 W	TC-TEL	PC 1/2x18 TC PRO	22176407	103 x 67 x 31 mm	16.6 W	18.8 W	A2 BAT	0.090 A	0.083 A	0.95	0.94	75 °C	-25 ... 70 °C	75/70 °C
2 x 18 W	TC-TEL	PC 1/2x18 TC PRO	22176407	103 x 67 x 31 mm	34.8 W	37.3 W	A2 BAT	0.174 A	0.159 A	0.98	0.98	75 °C	-25 ... 65 °C	70/60 °C
1 x 22 W	T5c	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	21.7 W	24.6 W	A2	0.117 A	0.107 A	0.96	0.95	75 °C	-25 ... 65 °C	70/60 °C
2 x 22 W	T5c	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	44.8 W	48.7 W	A2 BAT	0.225 A	0.206 A	0.99	0.98	75 °C	-25 ... 60 °C	70/55 °C
1 x 40 W	T5c	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	38.2 W	40.7 W	A2 BAT	0.189 A	0.173 A	0.99	0.98	75 °C	-25 ... 65 °C	70/60 °C
1 x 26 W	TC-DEL	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	23.0 W	25.6 W	A2 BAT	0.125 A	0.114 A	0.97	0.96	75 °C	-25 ... 65 °C	70/60 °C
2 x 26 W	TC-DEL	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	49.9 W	52.4 W	A2 BAT	0.242 A	0.222 A	0.99	0.99	75 °C	-25 ... 60 °C	70/55 °C
1 x 18 W	TC-F	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	13.7 W	15.4 W	A2	0.077 A	0.071 A	0.92	0.91	75 °C	-25 ... 65 °C	70/60 °C
2 x 18 W	TC-F	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	26.4 W	30.4 W	A2 BAT	0.142 A	0.130 A	0.98	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 24 W	TC-F	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	20.0 W	22.2 W	A2 BAT	0.106 A	0.097 A	0.96	0.95	75 °C	-25 ... 65 °C	70/60 °C
2 x 24 W	TC-F	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	42.9 W	45.7 W	A2 BAT	0.211 A	0.193 A	0.99	0.98	75 °C	-25 ... 60 °C	70/55 °C
1 x 18 W	TC-L	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	14.5 W	16.7 W	A2	0.083 A	0.076 A	0.93	0.92	75 °C	-25 ... 65 °C	70/60 °C
2 x 18 W	TC-L	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	29.5 W	33.3 W	A2 BAT	0.155 A	0.142 A	0.98	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 24 W	TC-L	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	21.6 W	24.1 W	A2 BAT	0.114 A	0.104 A	0.96	0.95	75 °C	-25 ... 65 °C	70/60 °C
2 x 24 W	TC-L	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	44.5 W	48.4 W	A2 BAT	0.223 A	0.204 A	0.99	0.97	75 °C	-25 ... 60 °C	70/55 °C
1 x 26 W	TC-TEL	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	24.4 W	26.7 W	A2 BAT	0.125 A	0.115 A	0.97	0.96	75 °C	-25 ... 65 °C	70/60 °C
2 x 26 W	TC-TEL	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	50.2 W	53.3 W	A2 BAT	0.243 A	0.223 A	0.99	0.99	75 °C	-25 ... 60 °C	70/55 °C
1 x 32 W	TC-TEL	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	31.3 W	33.7 W	A2 BAT	0.157 A	0.144 A	0.98	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 42 W	TC-TEL	PC 1/2x26-42 TC PRO	22176408	103 x 67 x 31 mm	40.9 W	42.7 W	A2 BAT	0.198 A	0.181 A	0.99	0.98	75 °C	-25 ... 65 °C	70/60 °C
<b>For luminaires with 2 lamps</b>														
2 x 22 W	T5c	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	48.0 W	50.9 W	A2 BAT	0.237 A	0.218 A	0.97	0.96	75 °C	-25 ... 65 °C	75/65 °C
1 x 62 W	T5c	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	62.5 W	66.6 W	A2 BAT	0.309 A	0.283 A	0.97	0.97	70 °C	-25 ... 55 °C	70/55 °C
2 x 40 W	T5c	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	74.5 W	80.2 W	A2 BAT	0.370 A	0.339 A	0.98	0.97	70 °C	-25 ... 55 °C	70/55 °C
2 x 26 W	TC-DEL	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	52.5 W	56.4 W	A2 BAT	0.263 A	0.241 A	0.98	0.97	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-F	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	28.3 W	31.0 W	A2 BAT	0.151 A	0.138 A	0.94	0.93	80 °C	-25 ... 75 °C	75/70 °C
2 x 24 W	TC-F	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	42.4 W	45.7 W	A2 BAT	0.216 A	0.198 A	0.96	0.95	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-L	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	30.5 W	33.3 W	A2 BAT	0.161 A	0.148 A	0.95	0.93	80 °C	-25 ... 75 °C	75/70 °C
2 x 24 W	TC-L	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	47.7 W	51.1 W	A2 BAT	0.239 A	0.219 A	0.97	0.96	75 °C	-25 ... 65 °C	75/65 °C
2 x 26 W	TC-TEL	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	51.6 W	55.5 W	A2 BAT	0.259 A	0.237 A	0.98	0.97	75 °C	-25 ... 65 °C	75/65 °C
2 x 32 W	TC-TEL	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	66.1 W	71.2 W	A2 BAT	0.329 A	0.302 A	0.98	0.98	70 °C	-25 ... 55 °C	70/55 °C
2 x 42 W	TC-TEL	PC 2x26-42 TC PRO	22176410	123 x 79 x 31 mm	83.0 W	90.4 W	A2 BAT	0.417 A	0.382 A	0.99	0.98	70 °C	-25 ... 55 °C	70/55 °C



**PC TC PRO sr+, 1/2x11 – 42 W**  
PC PRO

**Product description**

- CELMA Energy Efficiency Index A2 BAT / A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - No tools required for installation
  - Integrated terminal cover and strain relief
  - Through wiring possible
  - 3 separate strain reliefs
  - Devices can operate either 1 or 2 lamps
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life (EOL 2)
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Defined warm start	≤ 1.6 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

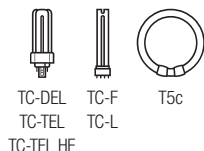
**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 or 2 lamps</b>				
PC 1/2x11-17 TC PRO sr+	22176411	25 pieces	550 pieces	0.18 kg
PC 1/2x18 TC PRO sr+	22176412	25 pieces	550 pieces	0.17 kg
PC 1/2x26-42 TC PRO sr+	22176413	25 pieces	550 pieces	0.18 kg
<b>For luminaires with 2 lamps</b>				
PC 2x26-42 TC PRO sr+	22176414	25 pieces	350 pieces	0.22 kg

- **Product / function matrix**, page 8
- Lamp matrix**, page 12
- Wiring diagrams and installation examples**, page 50

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
								220 V	240 V	220 V	240 V			
<b>For luminaires with 1 or 2 lamps</b>														
1 x 11 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr+	22176411	159.4 x 82 x 34 mm	12.0 W	13.5 W	A2 BAT	0.066 A	0.061 A	0.93	0.91	80 °C	-25 ... 75 °C	70/65 °C
2 x 11 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr+	22176411	159.4 x 82 x 34 mm	24.5 W	27.3 W	A2 BAT	0.127 A	0.116 A	0.98	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 14 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr+	22176411	159.4 x 82 x 34 mm	15.5 W	16.7 W	A2	0.080 A	0.074 A	0.95	0.93	80 °C	-25 ... 75 °C	70/65 °C
2 x 14 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr+	22176411	159.4 x 82 x 34 mm	32.0 W	33.9 W	A2 BAT	0.157 A	0.144 A	0.98	0.98	75 °C	-25 ... 65 °C	70/60 °C
1 x 17 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr+	22176411	159.4 x 82 x 34 mm	18.6 W	19.5 W	A2 BAT	0.094 A	0.086 A	0.96	0.95	80 °C	-25 ... 75 °C	70/65 °C
2 x 17 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr+	22176411	159.4 x 82 x 34 mm	37.8 W	40.0 W	A2 BAT	0.186 A	0.171 A	0.99	0.98	75 °C	-25 ... 65 °C	70/60 °C
1 x 18 W	TC-DEL	PC 1/2x18 TC PRO sr+	22176412	159.4 x 82 x 34 mm	16.7 W	18.7 W	A2 BAT	0.090 A	0.082 A	0.95	0.94	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-DEL	PC 1/2x18 TC PRO sr+	22176412	159.4 x 82 x 34 mm	33.6 W	36.5 W	A2 BAT	0.170 A	0.156 A	0.98	0.98	75 °C	-25 ... 65 °C	75/65 °C
1 x 18 W	TC-TEL	PC 1/2x18 TC PRO sr+	22176412	159.4 x 82 x 34 mm	16.6 W	18.8 W	A2 BAT	0.090 A	0.083 A	0.95	0.94	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-TEL	PC 1/2x18 TC PRO sr+	22176412	159.4 x 82 x 34 mm	34.8 W	37.7 W	A2 BAT	0.174 A	0.159 A	0.98	0.98	75 °C	-25 ... 65 °C	75/65 °C
1 x 22 W	T5c	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	21.7 W	24.6 W	A2	0.117 A	0.107 A	0.96	0.95	75 °C	-25 ... 60 °C	70/55 °C
2 x 22 W	T5c	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	44.8 W	48.7 W	A2 BAT	0.225 A	0.206 A	0.99	0.98	75 °C	-25 ... 55 °C	70/50 °C
1 x 40 W	T5c	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	38.2 W	40.7 W	A2 BAT	0.189 A	0.173 A	0.99	0.98	75 °C	-25 ... 60 °C	70/55 °C
1 x 26 W	TC-DEL	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	23.0 W	25.6 W	A2 BAT	0.125 A	0.114 A	0.97	0.96	75 °C	-25 ... 60 °C	70/55 °C
2 x 26 W	TC-DEL	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	49.9 W	52.4 W	A2 BAT	0.242 A	0.222 A	0.99	0.99	75 °C	-25 ... 55 °C	70/50 °C
1 x 18 W	TC-F	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	13.7 W	15.4 W	A2	0.077 A	0.071 A	0.92	0.91	75 °C	-25 ... 60 °C	70/55 °C
2 x 18 W	TC-F	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	26.4 W	30.4 W	A2 BAT	0.142 A	0.130 A	0.98	0.97	75 °C	-25 ... 60 °C	70/55 °C
1 x 24 W	TC-F	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	20.0 W	22.2 W	A2 BAT	0.106 A	0.097 A	0.96	0.95	75 °C	-25 ... 60 °C	70/55 °C
2 x 24 W	TC-F	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	42.9 W	45.7 W	A2 BAT	0.211 A	0.193 A	0.99	0.98	75 °C	-25 ... 55 °C	70/50 °C
1 x 18 W	TC-L	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	14.5 W	16.7 W	A2	0.083 A	0.076 A	0.93	0.92	75 °C	-25 ... 60 °C	70/55 °C
2 x 18 W	TC-L	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	29.5 W	33.3 W	A2 BAT	0.155 A	0.142 A	0.98	0.97	75 °C	-25 ... 60 °C	70/55 °C
1 x 24 W	TC-L	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	21.6 W	24.1 W	A2 BAT	0.114 A	0.104 A	0.96	0.95	75 °C	-25 ... 60 °C	70/55 °C
2 x 24 W	TC-L	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	44.5 W	48.4 W	A2 BAT	0.223 A	0.204 A	0.99	0.97	75 °C	-25 ... 55 °C	70/50 °C
1 x 26 W	TC-TEL	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	24.4 W	26.7 W	A2 BAT	0.125 A	0.115 A	0.97	0.96	75 °C	-25 ... 60 °C	70/55 °C
2 x 26 W	TC-TEL	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	50.2 W	53.3 W	A2 BAT	0.243 A	0.223 A	0.99	0.99	75 °C	-25 ... 55 °C	70/50 °C
1 x 32 W	TC-TEL	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	31.3 W	33.7 W	A2 BAT	0.157 A	0.144 A	0.98	0.97	75 °C	-25 ... 60 °C	70/55 °C
1 x 42 W	TC-TEL	PC 1/2x26-42 TC PRO sr+	22176413	159.4 x 82 x 34 mm	40.9 W	42.7 W	A2 BAT	0.198 A	0.181 A	0.99	0.98	75 °C	-25 ... 60 °C	70/55 °C
<b>For luminaires with 2 lamps</b>														
2 x 22 W	T5c	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	48.0 W	50.9 W	A2 BAT	0.237 A	0.218 A	0.97	0.96	75 °C	-25 ... 65 °C	75/65 °C
1 x 62 W	T5c	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	62.5 W	66.6 W	A2 BAT	0.309 A	0.283 A	0.97	0.97	70 °C	-25 ... 55 °C	70/55 °C
2 x 40 W	T5c	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	74.5 W	80.2 W	A2 BAT	0.370 A	0.339 A	0.98	0.97	70 °C	-25 ... 55 °C	70/55 °C
2 x 26 W	TC-DEL	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	52.5 W	56.4 W	A2 BAT	0.263 A	0.241 A	0.98	0.97	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-F	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	28.3 W	31.0 W	A2 BAT	0.151 A	0.138 A	0.94	0.93	80 °C	-25 ... 75 °C	75/70 °C
2 x 24 W	TC-F	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	42.4 W	45.7 W	A2 BAT	0.216 A	0.198 A	0.96	0.95	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-L	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	30.5 W	33.3 W	A2 BAT	0.161 A	0.148 A	0.95	0.93	80 °C	-25 ... 75 °C	75/70 °C
2 x 24 W	TC-L	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	47.7 W	51.1 W	A2 BAT	0.239 A	0.219 A	0.97	0.96	75 °C	-25 ... 65 °C	75/65 °C
2 x 26 W	TC-TEL	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	51.6 W	55.5 W	A2 BAT	0.259 A	0.237 A	0.98	0.97	75 °C	-25 ... 65 °C	75/65 °C
2 x 32 W	TC-TEL	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	66.1 W	71.2 W	A2 BAT	0.329 A	0.302 A	0.98	0.98	70 °C	-25 ... 55 °C	70/55 °C
2 x 42 W	TC-TEL	PC 2x26-42 TC PRO sr+	22176414	209.4 x 82 x 34 mm	83.0 W	90.4 W	A2 BAT	0.417 A	0.382 A	0.99	0.98	70 °C	-25 ... 55 °C	70/55 °C



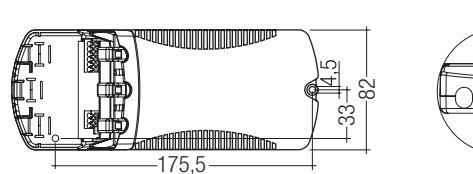
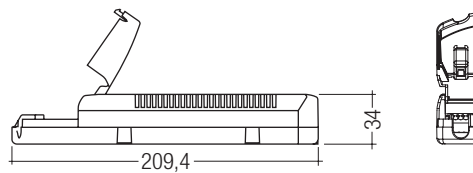
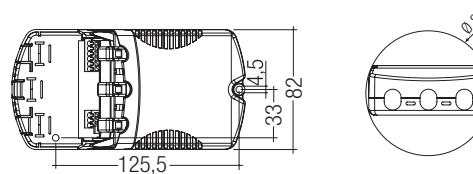
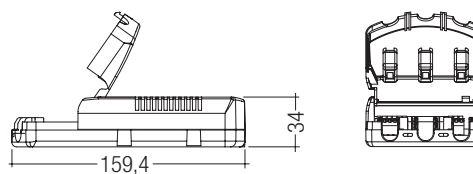
**PC TC PRO sr, 1/2x11 – 42 W**  
PC PRO

**Product description**

- CELMA Energy Efficiency Index A2 BAT / A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - No tools required for installation
  - Integrated terminal cover and strain relief
  - 3 separate strain reliefs
  - Devices can operate either 1 or 2 lamps
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life (EOL 2)
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Defined warm start	≤ 1.6 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Product / function matrix, page 8

Lamp matrix, page 12

Wiring diagrams and installation examples, page 50

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 or 2 lamps</b>				
PC 1/2x11-17 TC PRO sr	22176415	25 pieces	550 pieces	0.18 kg
PC 1/2x18 TC PRO sr	22176416	25 pieces	550 pieces	0.17 kg
PC 1/2x26-42 TC PRO sr	22176417	25 pieces	550 pieces	0.18 kg
<b>For luminaires with 2 lamps</b>				
PC 2x26-42 TC PRO sr	22176418	25 pieces	350 pieces	0.22 kg

Specific technical data

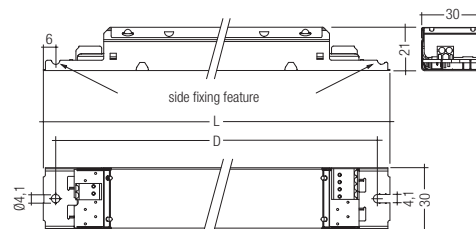
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
								220 V	240 V	220 V	240 V			
<b>For luminaires with 1 or 2 lamps</b>														
1 x 11 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr	22176415	159.4 x 82 x 34 mm	12.0 W	13.5 W	A2 BAT	0.066 A	0.061 A	0.93	0.91	80 °C	-25 ... 75 °C	70/65 °C
2 x 11 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr	22176415	159.4 x 82 x 34 mm	24.5 W	27.3 W	A2 BAT	0.127 A	0.116 A	0.98	0.97	75 °C	-25 ... 65 °C	70/60 °C
1 x 14 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr	22176415	159.4 x 82 x 34 mm	15.5 W	16.7 W	A2	0.080 A	0.074 A	0.95	0.93	80 °C	-25 ... 75 °C	70/65 °C
2 x 14 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr	22176415	159.4 x 82 x 34 mm	32.0 W	33.9 W	A2 BAT	0.157 A	0.144 A	0.98	0.98	75 °C	-25 ... 65 °C	70/60 °C
1 x 17 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr	22176415	159.4 x 82 x 34 mm	18.6 W	19.5 W	A2 BAT	0.094 A	0.086 A	0.96	0.95	80 °C	-25 ... 75 °C	70/65 °C
2 x 17 W	TC-TEL HE	PC 1/2x11-17 TC PRO sr	22176415	159.4 x 82 x 34 mm	37.8 W	40.0 W	A2 BAT	0.186 A	0.171 A	0.99	0.98	75 °C	-25 ... 65 °C	70/60 °C
1 x 18 W	TC-DEL	PC 1/2x18 TC PRO sr	22176416	159.4 x 82 x 34 mm	16.7 W	18.7 W	A2 BAT	0.090 A	0.082 A	0.95	0.94	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-DEL	PC 1/2x18 TC PRO sr	22176416	159.4 x 82 x 34 mm	33.6 W	36.5 W	A2 BAT	0.170 A	0.156 A	0.98	0.98	75 °C	-25 ... 65 °C	75/65 °C
1 x 18 W	TC-TEL	PC 1/2x18 TC PRO sr	22176416	159.4 x 82 x 34 mm	16.6 W	18.8 W	A2 BAT	0.090 A	0.083 A	0.95	0.94	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-TEL	PC 1/2x18 TC PRO sr	22176416	159.4 x 82 x 34 mm	34.8 W	37.7 W	A2 BAT	0.174 A	0.159 A	0.98	0.98	75 °C	-25 ... 65 °C	75/65 °C
1 x 22 W	T5c	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	21.7 W	24.6 W	A2	0.117 A	0.107 A	0.96	0.95	75 °C	-25 ... 60 °C	70/55 °C
2 x 22 W	T5c	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	44.8 W	48.7 W	A2 BAT	0.225 A	0.206 A	0.99	0.98	75 °C	-25 ... 55 °C	70/50 °C
1 x 40 W	T5c	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	38.2 W	40.7 W	A2 BAT	0.189 A	0.173 A	0.99	0.98	75 °C	-25 ... 60 °C	70/55 °C
1 x 26 W	TC-DEL	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	23.0 W	25.6 W	A2 BAT	0.125 A	0.114 A	0.97	0.96	75 °C	-25 ... 60 °C	70/55 °C
2 x 26 W	TC-DEL	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	49.9 W	52.4 W	A2 BAT	0.242 A	0.222 A	0.99	0.99	75 °C	-25 ... 55 °C	70/50 °C
1 x 18 W	TC-F	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	13.7 W	15.4 W	A2	0.077 A	0.071 A	0.92	0.91	75 °C	-25 ... 60 °C	70/55 °C
2 x 18 W	TC-F	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	26.4 W	30.4 W	A2 BAT	0.142 A	0.130 A	0.98	0.97	75 °C	-25 ... 60 °C	70/55 °C
1 x 24 W	TC-F	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	20.0 W	22.2 W	A2 BAT	0.106 A	0.097 A	0.96	0.95	75 °C	-25 ... 60 °C	70/55 °C
2 x 24 W	TC-F	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	42.9 W	45.7 W	A2 BAT	0.211 A	0.193 A	0.99	0.98	75 °C	-25 ... 55 °C	70/50 °C
1 x 18 W	TC-L	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	14.5 W	16.7 W	A2	0.083 A	0.076 A	0.93	0.92	75 °C	-25 ... 60 °C	70/55 °C
2 x 18 W	TC-L	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	29.5 W	33.3 W	A2 BAT	0.155 A	0.142 A	0.98	0.97	75 °C	-25 ... 60 °C	70/55 °C
1 x 24 W	TC-L	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	21.6 W	24.1 W	A2 BAT	0.114 A	0.104 A	0.96	0.95	75 °C	-25 ... 60 °C	70/55 °C
2 x 24 W	TC-L	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	44.5 W	48.4 W	A2 BAT	0.223 A	0.204 A	0.99	0.97	75 °C	-25 ... 55 °C	70/50 °C
1 x 26 W	TC-TEL	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	24.4 W	26.7 W	A2 BAT	0.125 A	0.115 A	0.97	0.96	75 °C	-25 ... 60 °C	70/55 °C
2 x 26 W	TC-TEL	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	50.2 W	53.3 W	A2 BAT	0.243 A	0.223 A	0.99	0.99	75 °C	-25 ... 55 °C	70/50 °C
1 x 32 W	TC-TEL	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	31.3 W	33.7 W	A2 BAT	0.157 A	0.144 A	0.98	0.97	75 °C	-25 ... 60 °C	70/55 °C
1 x 42 W	TC-TEL	PC 1/2x26-42 TC PRO sr	22176417	159.4 x 82 x 34 mm	40.9 W	42.7 W	A2 BAT	0.198 A	0.181 A	0.99	0.98	75 °C	-25 ... 60 °C	70/55 °C
<b>For luminaires with 2 lamps</b>														
2 x 22 W	T5c	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	48.0 W	50.9 W	A2 BAT	0.237 A	0.218 A	0.97	0.96	75 °C	-25 ... 65 °C	75/65 °C
1 x 62 W	T5c	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	62.5 W	66.6 W	A2 BAT	0.309 A	0.283 A	0.97	0.97	70 °C	-25 ... 55 °C	70/55 °C
2 x 40 W	T5c	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	74.5 W	80.2 W	A2 BAT	0.370 A	0.339 A	0.98	0.97	70 °C	-25 ... 55 °C	70/55 °C
2 x 26 W	TC-DEL	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	52.5 W	56.4 W	A2 BAT	0.263 A	0.241 A	0.98	0.97	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-F	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	28.3 W	31.0 W	A2 BAT	0.151 A	0.138 A	0.94	0.93	80 °C	-25 ... 75 °C	75/70 °C
2 x 24 W	TC-F	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	42.4 W	45.7 W	A2 BAT	0.216 A	0.198 A	0.96	0.95	75 °C	-25 ... 65 °C	75/65 °C
2 x 18 W	TC-L	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	30.5 W	33.3 W	A2 BAT	0.161 A	0.148 A	0.95	0.93	80 °C	-25 ... 75 °C	75/70 °C
2 x 24 W	TC-L	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	47.7 W	51.1 W	A2 BAT	0.239 A	0.219 A	0.97	0.96	75 °C	-25 ... 65 °C	75/65 °C
2 x 26 W	TC-TEL	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	51.6 W	55.5 W	A2 BAT	0.259 A	0.237 A	0.98	0.97	75 °C	-25 ... 65 °C	75/65 °C
2 x 32 W	TC-TEL	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	66.1 W	71.2 W	A2 BAT	0.329 A	0.302 A	0.98	0.98	70 °C	-25 ... 55 °C	70/55 °C
2 x 42 W	TC-TEL	PC 2x26-42 TC PRO sr	22176418	209.4 x 82 x 34 mm	83.0 W	90.4 W	A2 BAT	0.417 A	0.382 A	0.99	0.98	70 °C	-25 ... 55 °C	70/55 °C





NEW

PC T5 TOP Ip, 14 – 54 W  
PC TOP



Product description

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Fixed frequency operation for constant lamp current
  - Lamp preheating for min. 30,000 starts without replacement of lamps
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - Designed for THD < 10 %
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps (detects 1 lamp)
  - Safety shutdown of defective lamps and at end of lamp life
  - Push terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

Technical data

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

Ordering data – Europe, Middle East, Africa, America

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x14-35 T5 TOP Ip	28000023	10 pieces	960 pieces	0.165 kg
PC 1x24 T5 TOP Ip	28000025	10 pieces	960 pieces	0.165 kg
PC 1x39 T5 TOP Ip	28000027	10 pieces	960 pieces	0.165 kg
PC 1x49 T5 TOP Ip	28000029	10 pieces	960 pieces	0.165 kg
PC 1x54 T5 TOP Ip	28000031	10 pieces	960 pieces	0.165 kg
<b>For luminaires with 2 lamps</b>				
PC 2x14-28 T5 TOP Ip	28000024	10 pieces	760 pieces	0.245 kg
PC 2x35 T5 TOP Ip	28000047	10 pieces	760 pieces	0.210 kg
PC 2x24 T5 TOP Ip	28000026	10 pieces	760 pieces	0.210 kg
PC 2x39 T5 TOP Ip	28000028	10 pieces	760 pieces	0.235 kg
PC 2x49 T5 TOP Ip	28000030	10 pieces	760 pieces	0.250 kg
PC 2x54 T5 TOP Ip	28000032	10 pieces	760 pieces	0.245 kg
<b>For luminaires with 3 or 4 lamps</b>				
PC 3/4x14 T5 TOP Ip	22185220	10 pieces	760 pieces	0.245 kg
PC 3/4x24 T5 TOP Ip	22185221	10 pieces	760 pieces	0.250 kg

Ordering data – Asia, Australia

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x14-35 T5 TOP Ip	22185157	10 pieces	1,600 pieces	0.165 kg
PC 1x24 T5 TOP Ip	22185159	10 pieces	1,600 pieces	0.165 kg
PC 1x39 T5 TOP Ip	22185161	10 pieces	1,600 pieces	0.165 kg
PC 1x49 T5 TOP Ip	22185163	10 pieces	1,600 pieces	0.165 kg
PC 1x54 T5 TOP Ip	22185165	10 pieces	1,600 pieces	0.165 kg
<b>For luminaires with 2 lamps</b>				
PC 2x14-28 T5 TOP Ip	22185158	10 pieces	1,200 pieces	0.245 kg
PC 2x35 T5 TOP Ip	28000047	10 pieces	760 pieces	0.210 kg
PC 2x24 T5 TOP Ip	22185160	10 pieces	1,200 pieces	0.210 kg
PC 2x39 T5 TOP Ip	22185162	10 pieces	1,200 pieces	0.235 kg
PC 2x49 T5 TOP Ip	22185164	10 pieces	1,200 pieces	0.250 kg
PC 2x54 T5 TOP Ip	22185166	10 pieces	1,200 pieces	0.245 kg
<b>For luminaires with 3 or 4 lamps</b>				
PC 3/4x14 T5 TOP Ip	22185220	10 pieces	760 pieces	0.245 kg
PC 3/4x24 T5 TOP Ip	22185221	10 pieces	760 pieces	0.250 kg



Product / function matrix, page 8

Lamp matrix, page 11

Wiring diagrams and installation examples, page 50

Specific technical data

Lamp wattage	Lamp type	Type	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc / ta for ≥ 50,000 h
								220 V	240 V	220 V	240 V			
<b>For luminaires with 1 lamp</b>														
1 x 14 W	T5	PC 1x14-35 T5 TOP Ip	280 x 30 x 21 mm	270 mm	14.7 W	17.5 W	A2	0.077 A	0.069 A	0.97	0.95	60 °C	-20 ... 55 °C	55/50 °C
1 x 21 W	T5	PC 1x14-35 T5 TOP Ip	280 x 30 x 21 mm	270 mm	20.6 W	24.0 W	A2	0.106 A	0.095 A	0.97	0.95	65 °C	-20 ... 55 °C	60/50 °C
1 x 28 W	T5	PC 1x14-35 T5 TOP Ip	280 x 30 x 21 mm	270 mm	27.9 W	32.0 W	A2	0.143 A	0.128 A	0.98	0.96	65 °C	-20 ... 55 °C	60/50 °C
1 x 35 W	T5	PC 1x14-35 T5 TOP Ip	280 x 30 x 21 mm	270 mm	35.5 W	39.0 W	A2	0.176 A	0.158 A	0.99	0.97	70 °C	-20 ... 55 °C	65/50 °C
1 x 24 W	T5	PC 1x24 T5 TOP Ip	280 x 30 x 21 mm	270 mm	22.5 W	26.5 W	A2	0.118 A	0.106 A	0.98	0.96	65 °C	-20 ... 55 °C	60/50 °C
1 x 39 W	T5	PC 1x39 T5 TOP Ip	280 x 30 x 21 mm	270 mm	38.0 W	43.0 W	A2	0.192 A	0.172 A	0.98	0.96	70 °C	-20 ... 55 °C	65/50 °C
1 x 49 W	T5	PC 1x49 T5 TOP Ip	280 x 30 x 21 mm	270 mm	49.2 W	55.5 W	A2	0.247 A	0.222 A	0.98	0.96	75 °C	-20 ... 55 °C	70/50 °C
1 x 54 W	T5	PC 1x54 T5 TOP Ip	280 x 30 x 21 mm	270 mm	54.1 W	60.0 W	A2	0.267 A	0.240 A	0.98	0.96	75 °C	-20 ... 55 °C	70/50 °C
<b>For luminaires with 2 lamps</b>														
2 x 14 W	T5	PC 2x14-28 T5 TOP Ip	360 x 30 x 21 mm	350 mm	29.4 W	35.0 W	A2	0.154 A	0.139 A	0.97	0.95	65 °C	-20 ... 55 °C	60/50 °C
2 x 21 W	T5	PC 2x14-28 T5 TOP Ip	360 x 30 x 21 mm	350 mm	41.2 W	49.0 W	A2	0.216 A	0.194 A	0.97	0.95	65 °C	-20 ... 55 °C	60/50 °C
2 x 28 W	T5	PC 2x14-28 T5 TOP Ip	360 x 30 x 21 mm	350 mm	55.8 W	64.0 W	A2	0.285 A	0.256 A	0.98	0.96	70 °C	-20 ... 55 °C	65/50 °C
2 x 35 W	T5	PC 2x35 T5 TOP Ip	360 x 30 x 21 mm	350 mm	71.0 W	76.0 W	A2	0.342 A	0.309 A	0.99	0.97	80 °C	-20 ... 55 °C	75/50 °C
2 x 24 W	T5	PC 2x24 T5 TOP Ip	360 x 30 x 21 mm	350 mm	45.0 W	52.0 W	A2	0.232 A	0.208 A	0.98	0.96	70 °C	-20 ... 55 °C	65/50 °C
2 x 39 W	T5	PC 2x39 T5 TOP Ip	360 x 30 x 21 mm	350 mm	76.0 W	86.0 W	A2	0.383 A	0.344 A	0.98	0.96	75 °C	-20 ... 55 °C	70/50 °C
2 x 49 W	T5	PC 2x49 T5 TOP Ip	360 x 30 x 21 mm	350 mm	98.4 W	110.6 W	A2	0.498 A	0.447 A	0.99	0.97	80 °C	-20 ... 55 °C	75/50 °C
2 x 54 W	T5	PC 2x54 T5 TOP Ip	360 x 30 x 21 mm	350 mm	108.2 W	120.0 W	A2	0.540 A	0.485 A	0.99	0.97	80 °C	-20 ... 55 °C	75/50 °C
<b>For luminaires with 3 or 4 lamps</b>														
3 x 14 W	T5	PC 3/4x14 T5 TOP Ip	360 x 30 x 21 mm	350 mm	42.0 W	51.2 W	A2	0.230 A	0.207 A	0.99	0.97	70 °C	-25 ... 50 °C	60/50 °C
3 x 24 W	T5	PC 3/4x24 T5 TOP Ip	360 x 30 x 21 mm	350 mm	70.9 W	79.2 W	A2	0.356 A	0.320 A	0.99	0.97	75 °C	-25 ... 50 °C	60/50 °C
4 x 14 W	T5	PC 3/4x14 T5 TOP Ip	360 x 30 x 21 mm	350 mm	53.2 W	68.3 W	A2	0.307 A	0.276 A	0.99	0.97	70 °C	-25 ... 50 °C	65/50 °C
4 x 24 W	T5	PC 3/4x24 T5 TOP Ip	360 x 30 x 21 mm	350 mm	90.0 W	105.5 W	A2	0.475 A	0.426 A	0.99	0.97	75 °C	-25 ... 50 °C	75/50 °C





NEW

PC T8 TOP Ip, PC T8 TOP sl, 18 – 58 W  
PC TOP

Product description

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - Lamp preheating for min. 30,000 starts without replacement of lamps
  - Designed for THD < 10 %
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Push terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Fig. 1

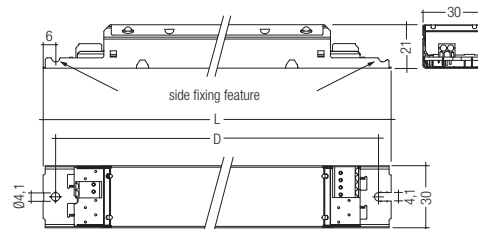
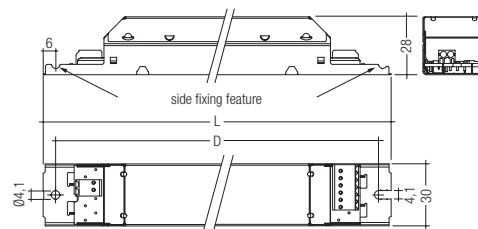


Fig. 2



Technical data

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.5 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

Ordering data

Type	Article number	Figure	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>					
PC 1x18 T8 TOP sl	22185222	2	10 pieces	1,900 pieces	0.148 kg
PC 1x36 T8 TOP sl	22185223	2	10 pieces	1,900 pieces	0.148 kg
PC 1x58 T8 TOP sl	22185224	2	10 pieces	1,900 pieces	0.148 kg
<b>For luminaires with 2 lamps</b>					
PC 2x18 T8 TOP sl	22185225	2	10 pieces	1,600 pieces	0.174 kg
PC 2x36 T8 TOP sl	22185226	2	10 pieces	1,600 pieces	0.212 kg
PC 2x58 T8 TOP sl	22185227	2	10 pieces	1,600 pieces	0.212 kg
<b>For luminaires with 3 or 4 lamps</b>					
PC 3/4x18 T8 TOP Ip	22185228	1	10 pieces	960 pieces	0.190 kg

→ Product / function matrix, page 8

Lamp matrix, page 11

Wiring diagrams and installation examples, page 50

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
									220 V	240 V	220 V	240 V			
<b>For luminaires with 1 lamp</b>															
1 x 18 W	T8	PC 1x18 T8 TOP sl	22185222	230 x 30 x 28 mm	220 mm	16 W	19.3 W	A2	0.860 A	0.770 A	0.98	0.96	65 °C	-20 ... 55 °C	60/50 °C
1 x 36 W	T8	PC 1x36 T8 TOP sl	22185223	230 x 30 x 28 mm	220 mm	32 W	36.7 W	A2	0.165 A	0.148 A	0.99	0.97	65 °C	-20 ... 55 °C	60/50 °C
1 x 58 W	T8	PC 1x58 T8 TOP sl	22185224	230 x 30 x 28 mm	220 mm	50 W	56.2 W	A2	0.253 A	0.227 A	0.99	0.97	70 °C	-20 ... 55 °C	65/50 °C
<b>For luminaires with 2 lamps</b>															
2 x 18 W	T8	PC 2x18 T8 TOP sl	22185225	280 x 30 x 28 mm	270 mm	32 W	38.6 W	A2	0.174 A	0.156 A	0.99	0.97	65 °C	-20 ... 55 °C	60/50 °C
2 x 36 W	T8	PC 2x36 T8 TOP sl	22185226	280 x 30 x 28 mm	270 mm	64 W	73.4 W	A2	0.330 A	0.303 A	0.99	0.98	70 °C	-20 ... 55 °C	65/50 °C
2 x 58 W	T8	PC 2x58 T8 TOP sl	22185227	280 x 30 x 28 mm	270 mm	100 W	112.4 W	A2	0.506 A	0.459 A	0.99	0.98	75 °C	-20 ... 55 °C	70/50 °C
<b>For luminaires with 3 or 4 lamps</b>															
3 x 18 W	T8	PC 3/4x18 T8 TOP Ip	22185228	280 x 30 x 21 mm	270 mm	50.4 W	57.8 W	A2	0.260 A	0.236 A	0.99	0.97	80 °C	-25 ... 60 °C	75/60 °C
4 x 18 W	T8	PC 3/4x18 T8 TOP Ip	22185228	280 x 30 x 21 mm	270 mm	64.0 W	77.1 W	A2	0.347 A	0.315 A	0.99	0.97	80 °C	-25 ... 60 °C	75/60 °C

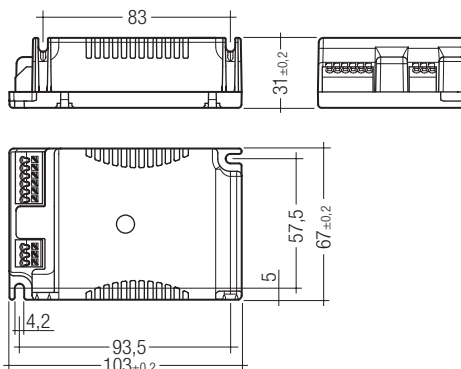


NEW

**PC TC TOP, 18 – 42 W**  
PC TOP

**Product description**

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Fixed frequency operation for constant lamp current
  - Lamp preheating for min. 30,000 starts without replacement of lamps
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - Designed for THD < 10 %
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps (detects 1 lamp)
  - Safety shutdown of defective lamps and at end of lamp life
  - Push terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.6 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x18 TC TOP	28000073	15 pieces	750 pieces	0.106 kg
PC 1x26-42 TC TOP	28000075	15 pieces	750 pieces	0.107 kg
<b>For luminaires with 2 lamps</b>				
PC 2x18 TC TOP	28000074	15 pieces	750 pieces	0.107 kg
PC 2x26 TC TOP	28000076	15 pieces	750 pieces	0.113 kg



Product / function matrix, page 8

Lamp matrix, page 12

Wiring diagrams and installation examples, page 50

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
								220 V	240 V	220 V	240 V			
<b>For luminaires with 1 lamp</b>														
1 x 18 W	TC-DEL	PC 1x18 TC TOP	28000073	103 x 67 x 31 mm	16.5 W	18.2 W	A2	0.085 A	0.080 A	0.97	0.95	75 °C	-25 ... 65 °C	70/60 °C
1 x 18 W	TC-TEL	PC 1x18 TC TOP	28000073	103 x 67 x 31 mm	16.5 W	18.2 W	A2	0.085 A	0.080 A	0.97	0.95	75 °C	-25 ... 65 °C	70/60 °C
1 x 26 W	TC-DEL	PC 1x26-42 TC TOP	28000075	103 x 67 x 31 mm	24.0 W	26.8 W	A2	0.127 A	0.119 A	0.96	0.94	75 °C	-25 ... 65 °C	65/55 °C
1 x 26 W	TC-TEL	PC 1x26-42 TC TOP	28000075	103 x 67 x 31 mm	24.0 W	26.8 W	A2	0.127 A	0.119 A	0.96	0.94	75 °C	-25 ... 65 °C	65/55 °C
1 x 32 W	TC-TEL	PC 1x26-42 TC TOP	28000075	103 x 67 x 31 mm	32.0 W	35.1 W	A2	0.164 A	0.154 A	0.97	0.95	75 °C	-25 ... 65 °C	65/55 °C
1 x 42 W	TC-TEL	PC 1x26-42 TC TOP	28000075	103 x 67 x 31 mm	42.0 W	47.1 W	A2	0.218 A	0.204 A	0.98	0.96	75 °C	-25 ... 60 °C	65/50 °C
<b>For luminaires with 2 lamps</b>														
2 x 18 W	TC-DEL	PC 2x18 TC TOP	28000074	103 x 67 x 31 mm	33.0 W	34.7 W	A2	0.163 A	0.152 A	0.97	0.95	80 °C	-25 ... 65 °C	70/55 °C
2 x 18 W	TC-TEL	PC 2x18 TC TOP	28000074	103 x 67 x 31 mm	33.0 W	34.7 W	A2	0.163 A	0.152 A	0.97	0.95	80 °C	-25 ... 65 °C	70/55 °C
2 x 26 W	TC-DEL	PC 2x26 TC TOP	28000076	103 x 67 x 31 mm	48.5 W	53.1 W	A2	0.246 A	0.230 A	0.98	0.96	75 °C	-25 ... 60 °C	65/50 °C
2 x 26 W	TC-TEL	PC 2x26 TC TOP	28000076	103 x 67 x 31 mm	48.5 W	53.1 W	A2	0.246 A	0.230 A	0.98	0.96	75 °C	-25 ... 60 °C	65/50 °C



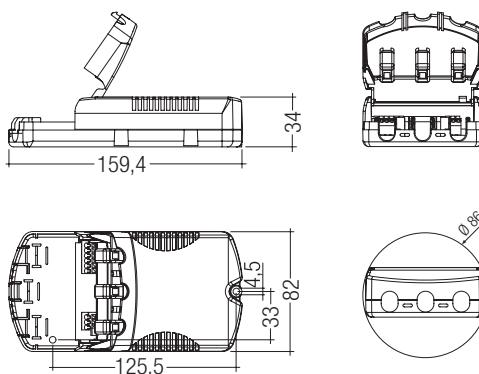
TC-DEL  
TC-TEL

NEW

**PC TC TOP sr, 1/2x18 – 42 W**  
PC TOP

**Product description**

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - No tools required for installation
  - Integrated terminal cover and strain relief
  - 3 separate strain reliefs
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life (EOL 2)
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Overvoltage protection	320 V AC, 1 h
Defined warm start	≤ 1.6 s
Operating frequency	≥ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x18 TC TOP sr	28000077	25 pieces	550 pieces	0.106 kg
PC 1x26-42 TC TOP sr	28000079	25 pieces	550 pieces	0.107 kg
<b>For luminaires with 2 lamps</b>				
PC 2x18 TC TOP sr	28000078	25 pieces	550 pieces	0.107 kg
PC 2x26 TC TOP sr	28000080	25 pieces	550 pieces	0.113 kg



Product / function matrix, page 8

Lamp matrix, page 12

Wiring diagrams and installation examples, page 50

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
								220 V	240 V	220 V	240 V			
<b>For luminaires with 1 lamp</b>														
1 x 18 W	TC-DEL	PC 1x18 TC TOP sr	28000077	159.4 x 82 x 34 mm	16.5 W	18.2 W	A2	0.085 A	0.080 A	0.97	0.95	75 °C	-25 ... 65 °C	70/60 °C
1 x 18 W	TC-TEL	PC 1x18 TC TOP sr	28000077	159.4 x 82 x 34 mm	16.5 W	18.2 W	A2	0.085 A	0.080 A	0.97	0.95	75 °C	-25 ... 65 °C	70/60 °C
1 x 26 W	TC-DEL	PC 1x26-42 TC TOP sr	28000079	159.4 x 82 x 34 mm	24.0 W	26.8 W	A2	0.127 A	0.119 A	0.96	0.94	70 °C	-25 ... 60 °C	65/55 °C
1 x 26 W	TC-TEL	PC 1x26-42 TC TOP sr	28000079	159.4 x 82 x 34 mm	24.0 W	26.8 W	A2	0.127 A	0.119 A	0.96	0.94	70 °C	-25 ... 60 °C	65/55 °C
1 x 36 W	TC-TEL	PC 1x26-42 TC TOP sr	28000079	159.4 x 82 x 34 mm	32.0 W	35.1 W	A2	0.164 A	0.154 A	0.97	0.95	70 °C	-25 ... 60 °C	65/55 °C
1 x 42 W	TC-TEL	PC 1x26-42 TC TOP sr	28000079	159.4 x 82 x 34 mm	42.0 W	47.1 W	A2	0.218 A	0.204 A	0.98	0.96	75 °C	-25 ... 60 °C	65/50 °C
<b>For luminaires with 2 lamps</b>														
2 x 18 W	TC-DEL	PC 2x18 TC TOP sr	28000078	159.4 x 82 x 34 mm	33.0 W	34.7 W	A2	0.163 A	0.152 A	0.97	0.95	75 °C	-25 ... 65 °C	70/55 °C
2 x 18 W	TC-TEL	PC 2x18 TC TOP sr	28000078	159.4 x 82 x 34 mm	33.0 W	34.7 W	A2	0.163 A	0.152 A	0.97	0.95	75 °C	-25 ... 65 °C	70/55 °C
2 x 26 W	TC-DEL	PC 2x26 TC TOP sr	28000080	159.4 x 82 x 34 mm	48.5 W	53.1 W	A2	0.246 A	0.230 A	0.98	0.96	75 °C	-25 ... 60 °C	70/50 °C
2 x 26 W	TC-TEL	PC 2x26 TC TOP sr	28000080	159.4 x 82 x 34 mm	48.5 W	53.1 W	A2	0.246 A	0.230 A	0.98	0.96	75 °C	-25 ... 60 °C	70/50 °C



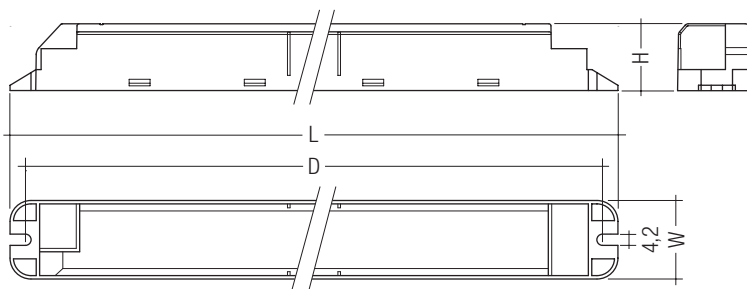
NEW

**PC T5 TEC, 14 – 28 W**  
PC TEC

**Product description**

- CELMA Energy Efficiency Index A2 / A3
- Nominal life time up to 30,000 h (at ta 50 °C with a failure rate max. 0.3 % per 1,000 h)
- Large temperature range (for values see table)
- Fixed frequency operation for constant lamp current
- Reduced lamp preheating for min. 5,000 starts without replacement of lamps (3,000 for 1x14 W and 1x21 W applications)
- Automatic start after replacement of defective lamps
- Safety shutdown of defective lamps and at end of lamp life
- Temperature protection as per EN 61347-2-3 C5e

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
Mains frequency	50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Time to light	≤ 2 s
Operating frequency	≥ 40 kHz
Type of protection	IP 20



Product / function matrix, page 8

Lamp matrix, page 11

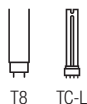
Wiring diagrams and installation examples, page 50

**Ordering data**

Type	Article number	Packaging carton	Packaging Pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x14 T5 TEC	87500121	60 pieces	1,440 pieces	0.085 kg
PC 1x21 T5 TEC	87500125	60 pieces	1,440 pieces	0.095 kg
PC 1x28 T5 TEC	87500127	60 pieces	1,440 pieces	0.095 kg
<b>For luminaires with 2 lamps</b>				
PC 2x14 T5 TEC	87500122	60 pieces	1,440 pieces	0.120 kg
PC 2x28 T5 TEC	87500128	60 pieces	1,440 pieces	0.150 kg
<b>For luminaires with 3 lamps</b>				
PC 3x14 T5 TEC	87500123	60 pieces	1,080 pieces	0.198 kg
<b>For luminaires with 4 lamps</b>				
PC 4x14 T5 TEC	87500124	60 pieces	1,080 pieces	0.156 kg

**Spezifische technische Daten**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta	tc / ta for ≥ 30,000 h
									220 V	240 V	220 V	240 V			
<b>For luminaires with 1 lamp</b>															
1 x 14 W	T5	PC 1x14 T5 TEC	87500121	210 x 30 x 25.5 mm	198.0 mm	14.0 W	18.0 W	A3	0.08 A	0.09 A	0.95	0.95	65 °C	0 ... 50 °C	65 / 50 °C
1 x 21 W	T5	PC 1x21 T5 TEC	87500125	210 x 30 x 25.5 mm	198.0 mm	20.0 W	24.5 W	A3	0.11 A	0.12 A	0.95	0.95	65 °C	0 ... 50 °C	65 / 50 °C
1 x 28 W	T5	PC 1x28 T5 TEC	87500127	210 x 30 x 25.5 mm	198.0 mm	27.0 W	33.0 W	A2	0.15 A	0.16 A	0.95	0.96	65 °C	0 ... 50 °C	65 / 50 °C
<b>For luminaires with 2 lamps</b>															
2 x 14 W	T5	PC 2x14 T5 TEC	87500122	275 x 30 x 25.5 mm	263.2 mm	28.0 W	33.5 W	A2	0.15 A	0.16 A	0.95	0.95	65 °C	0 ... 50 °C	65 / 50 °C
2 x 28 W	T5	PC 2x28 T5 TEC	87500128	275 x 30 x 25.5 mm	263.2 mm	54.0 W	65.8 W	A2	0.30 A	0.30 A	0.95	0.95	65 °C	0 ... 50 °C	65 / 50 °C
<b>For luminaires with 3 lamps</b>															
3 x 14 W	T5	PC 3x14 T5 TEC	87500123	314 x 35 x 27 mm	302.0 mm	42.0 W	47.5 W	A2	0.22 A	0.22 A	0.95	0.95	65 °C	0 ... 50 °C	65 / 50 °C
<b>For luminaires with 4 lamps</b>															
4 x 14 W	T5	PC 4x14 T5 TEC	87500124	260 x 40 x 25.5 mm	250.0 mm	56.0 W	66.0 W	A2	0.30 A	0.30 A	0.95	0.95	65 °C	0 ... 50 °C	65 / 50 °C

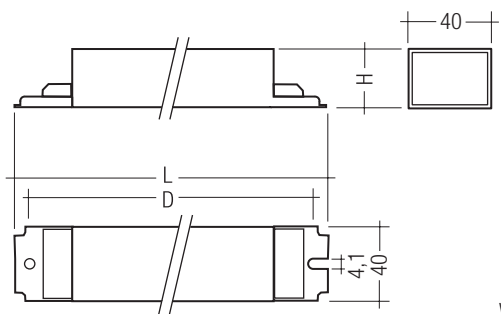


NEW

PC T8 TEC, 18 – 58 W  
PC TEC

Product description

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 30,000 h (at ta 50 °C with a failure rate max. 0.3 % per 1,000 h)
  - Large temperature range (for values see table)
  - Reduced lamp preheating for min. 5,000 starts without replacement of lamps (3,000 for 4x18 W applications)
  - Automatic start after replacement of defective lamps (details in data sheet)
  - sheet)
  - Safety shutdown of defect lamps
  - For 1x58 W and 2x58 W applications safety shutdown at end of lamp life
  - Push terminal for rapid automatic or manual wiring
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Technical data

Mains voltage range	220 – 240 V
AC voltage range	206 – 254 V (lamp start ≥ 198 V AC)
Mains frequency	50 / 60 Hz
Overvoltage protection	320 V AC, 1 h (280 V AC, 48 h for 2x58 W applications)
Time to light	≤ 1 s
Operating frequency	> 40 kHz
Type of protection	IP20

Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x18 T8 TEC	87500113	60 pieces	2,520 pieces	0.116 kg
PC 1x36 T8 TEC (2x18 W applications)	87500115 <sup>①</sup>	60 pieces	2,520 pieces	0.117 kg
PC 1x58 T8 TEC	87500150	60 pieces	2,520 pieces	0.118 kg
<b>For luminaires with 2 lamps</b>				
PC 2x18 T8 TEC	87500114	60 pieces	1,800 pieces	0.168 kg
PC 1x36 T8 TEC (2x18 W applications)	87500115 <sup>①</sup>	60 pieces	1,260 pieces	0.117 kg
PC 2x36 T8 TEC (4x18 W applications)	87500116 <sup>②</sup>	60 pieces	1,800 pieces	0.185 kg
PC 2x58 T8 TEC	87500151	60 pieces	1,800 pieces	0.184 kg
<b>For luminaires with 4 lamps</b>				
PC 2x36 T8 TEC (4x18 W applications)	87500116 <sup>②</sup>	60 pieces	900 pieces	0.185 kg



Product / function matrix, page 8

Lamp matrix, page 11

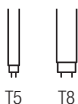
Wiring diagrams and installation examples, page 50

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 18 W	T8	PC 1x18 T8 TEC	87500113	150 x 40 x 28 mm	138 mm	17 W	19 W	A2	0.08 A	0.08 A	0.97	0.97	65 °C	-10 ... 50 °C
1 x 36 W	T8	PC 1x36 T8 TEC (2x18 W applications)	87500115	150 x 40 x 28 mm	138 mm	32 W	35 W	A2	0.15 A	0.15 A	0.98	0.98	65 °C	-10 ... 50 °C
1 x 58 W	T8	PC 1x58 T8 TEC	87500150	150 x 40 x 28 mm	138 mm	50 W	55 W	A2	0.24 A	0.24 A	0.97	0.97	65 °C	-10 ... 50 °C
1 x 55 W	TC-L	PC 1x58 T8 TEC	87500150	150 x 40 x 28 mm	138 mm	50 W	55 W	A2	0.24 A	0.24 A	0.97	0.97	65 °C	-10 ... 50 °C
<b>For luminaires with 2 lamps</b>														
2 x 18 W	T8	PC 2x18 T8 TEC	87500114	210 x 40 x 30 mm	198 mm	32 W	35 W	A2	0.16 A	0.16 A	0.98	0.98	65 °C	-10 ... 50 °C
2 x 18 W	T8	PC 1x36 T8 TEC (2x18 W applications)	87500115	150 x 40 x 28 mm	138 mm	32 W	35 W	A2	0.15 A	0.15 A	0.98	0.98	65 °C	-10 ... 50 °C
2 x 36 W	T8	PC 2x36 T8 TEC (4x18 W applications)	87500116	210 x 40 x 30 mm	198 mm	62 W	67 W	A2	0.30 A	0.30 A	0.98	0.98	70 °C	-10 ... 50 °C
2 x 58 W	T8	PC 2x58 T8 TEC	87500151	210 x 40 x 30 mm	198 mm	100 W	107 W	A2	0.47 A	0.47 A	0.97	0.97	70 °C	-10 ... 50 °C
2 x 55 W	TC-L	PC 2x58 T8 TEC	87500151	210 x 40 x 30 mm	198 mm	100 W	107 W	A2	0.47 A	0.47 A	0.97	0.97	70 °C	-10 ... 50 °C
<b>For luminaires with 4 lamps</b>														
4 x 18 W	T8	PC 2x36 T8 TEC <sup>②</sup>	87500116	210 x 40 x 30 mm	198 mm	62 W	67 W	A2	0.30 A	0.31 A	0.98	0.98	70 °C	-10 ... 50 °C

<sup>①</sup> Art. no. 87500115 suitable to operate 2x18 W applications.

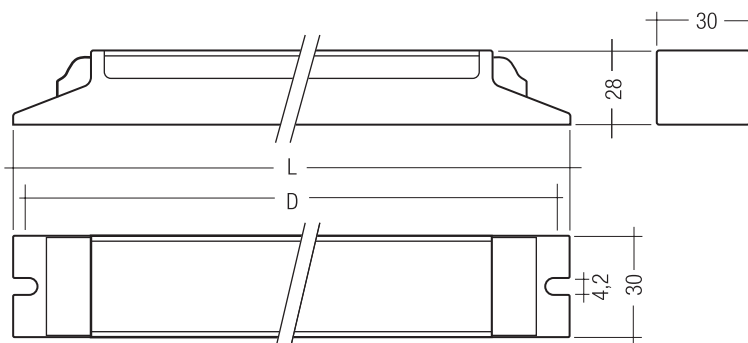
<sup>②</sup> Art. no. 87500116 suitable to operate 4x18 W applications.



**PC INDUSTRY, 35 – 80 W**  
ECG for industrial applications

**Product description**

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 200,000 h (at ta 50 °C with a failure rate max. 0.05 % per 1,000 h)
  - Large temperature range (for values see table)
  - Suitable for mains voltage peaks (burst/surge) up to 4 kV
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start $\geq$ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	$\leq$ 1.5 s
Operating frequency	$\geq$ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1/35 T5 INDUSTRY	86459171	25 pieces	600 pieces	0.42 kg
PC 1/36 T8 INDUSTRY	86458035	25 pieces	600 pieces	0.42 kg
PC 1/49 T5 INDUSTRY	86458039	25 pieces	600 pieces	0.42 kg
PC 1/54 T5 INDUSTRY	86458041	25 pieces	600 pieces	0.42 kg
PC 1/58 T8 INDUSTRY	86458037	25 pieces	600 pieces	0.42 kg
PC 1/80 T5 INDUSTRY	86458043	25 pieces	600 pieces	0.42 kg
<b>For luminaires with 2 lamps</b>				
PC 2/35 T5 INDUSTRY	86459172	25 pieces	600 pieces	0.42 kg
PC 2/36 T8 INDUSTRY	86458036	25 pieces	600 pieces	0.42 kg
PC 2/49 T5 INDUSTRY	86458040	25 pieces	600 pieces	0.42 kg
PC 2/54 T5 INDUSTRY	86458042	25 pieces	600 pieces	0.42 kg
PC 2/58 T8 INDUSTRY	86458038	25 pieces	600 pieces	0.42 kg
PC 2/80 T5 INDUSTRY	86458044	25 pieces	600 pieces	0.42 kg



Product / function matrix, page 8

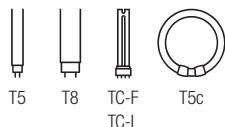
Lamp matrix, page 13 and 14

Wiring diagrams and installation examples, page 50

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 28 W	T5	PC 1/35 T5 INDUSTRY	86459171	456 x 30 x 28 mm	445 mm	27.9 W	32.6 W	A2	0.16 A	0.15 A	0.97	0.96	75 °C	-30 ... 70 °C
1 x 35 W	T5	PC 1/35 T5 INDUSTRY	86459171	456 x 30 x 28 mm	445 mm	35.0 W	39.0 W	A2	0.18 A	0.17 A	0.99	0.97	75 °C	-30 ... 70 °C
1 x 36 W	T8	PC 1/36 T8 INDUSTRY	86458035	456 x 30 x 28 mm	445 mm	32.0 W	36.5 W	A2	0.17 A	0.16 A	0.96	0.94	76 °C	-30 ... 70 °C
1 x 49 W	T5	PC 1/49 T5 INDUSTRY	86458039	456 x 30 x 28 mm	445 mm	49.0 W	56.0 W	A2	0.27 A	0.25 A	0.96	0.95	77 °C	-30 ... 70 °C
1 x 54 W	T5	PC 1/54 T5 INDUSTRY	86458041	456 x 30 x 28 mm	445 mm	54.0 W	60.0 W	A2	0.28 A	0.26 A	0.97	0.96	79 °C	-30 ... 70 °C
1 x 58 W	T8	PC 1/58 T8 INDUSTRY	86458037	456 x 30 x 28 mm	445 mm	50.0 W	55.5 W	A2	0.26 A	0.24 A	0.97	0.96	80 °C	-30 ... 70 °C
1 x 80 W	T5	PC 1/80 T5 INDUSTRY	86458043	456 x 30 x 28 mm	445 mm	80.0 W	88.0 W	A2	0.41 A	0.38 A	0.98	0.97	80 °C	-30 ... 70 °C
<b>For luminaires with 2 lamps</b>														
2 x 28 W	T5	PC 2/35 T5 INDUSTRY	86459172	456 x 30 x 28 mm	445 mm	55.8 W	63.8 W	A2	0.30 A	0.28 A	0.97	0.96	75 °C	-30 ... 70 °C
2 x 35 W	T5	PC 2/35 T5 INDUSTRY	86459172	456 x 30 x 28 mm	445 mm	70.0 W	78.0 W	A2	0.36 A	0.34 A	0.99	0.97	80 °C	-30 ... 70 °C
2 x 36 W	T8	PC 2/36 T8 INDUSTRY	86458036	456 x 30 x 28 mm	445 mm	64.0 W	74.5 W	A2	0.35 A	0.32 A	0.97	0.97	82 °C	-30 ... 70 °C
2 x 49 W	T5	PC 2/49 T5 INDUSTRY	86458040	456 x 30 x 28 mm	445 mm	98.0 W	107.0 W	A2	0.50 A	0.46 A	0.98	0.97	77 °C	-30 ... 70 °C
2 x 54 W	T5	PC 2/54 T5 INDUSTRY	86458042	456 x 30 x 28 mm	445 mm	106.5 W	115.0 W	A2	0.51 A	0.48 A	0.99	0.97	79 °C	-30 ... 70 °C
2 x 58 W	T8	PC 2/58 T8 INDUSTRY	86458038	456 x 30 x 28 mm	445 mm	100.0 W	108.0 W	A2	0.50 A	0.46 A	0.98	0.98	83 °C	-30 ... 70 °C
2 x 80 W	T5	PC 2/80 T5 INDUSTRY	86458044	456 x 30 x 28 mm	445 mm	160.0 W	172.0 W	A2	0.79 A	0.73 A	0.99	0.98	84 °C	-30 ... 60 °C

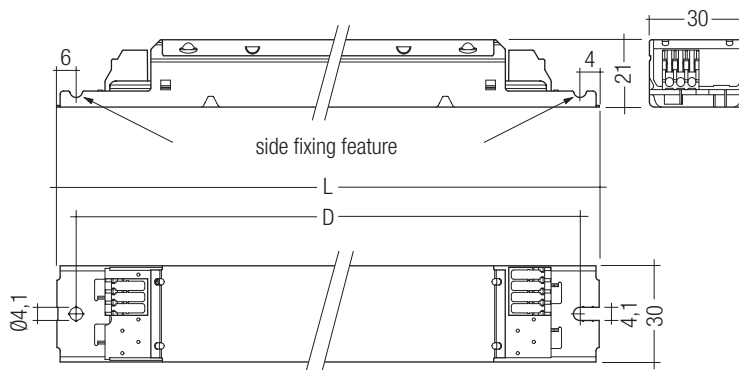




**PC T5 PRO-M Ip, 14 – 80 W**  
Multi-lamp ECG

**Product description**

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Integrated lamp detection
  - Operation of T5 lamps of the same length
  - Constant luminous flux irrespective of fluctuations in mains voltage
  - For luminaires of protection class I and protection class II
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Insulation Displacement Connection (IDC) terminal for rapid automatic or manual wiring
  - For emergency lighting systems as per EN 50172
  - For luminaires with M and MM as per EN 60598, VDE 0710 and VDE 0711
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start $\geq$ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Defined warm start	$\leq$ 0.5 s
Operating frequency	$\geq$ 40 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1/14-35/24/39 T5 PRO-M Ip	22176182	25 pieces	700 pieces	0.25 kg
PC 1/14-35/49/54 T5 PRO-M Ip	22176183	25 pieces	700 pieces	0.25 kg
PC 1/14-35/49/80 T5 PRO-M Ip	22176184	25 pieces	700 pieces	0.26 kg
<b>For luminaires with 2 lamps</b>				
PC 2/14-21/24/39 T5 PRO-M Ip	22176185	25 pieces	700 pieces	0.27 kg
PC 2/14-35/49/54 T5 PRO-M Ip	22176186	25 pieces	700 pieces	0.27 kg



Product / function matrix, page 8

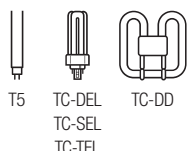
Lamp matrix, page 13 and 14

Wiring diagrams and installation examples, page 50



Specific technical data

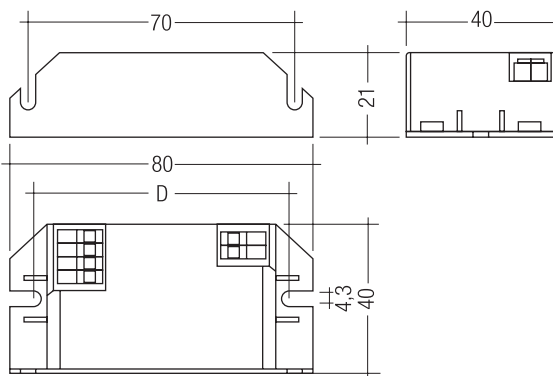
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 14 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	14.0 W	16.5 W	A2	0.090 A	0.08 A	0.89	0.85	75 °C	-25 ... 65 °C
1 x 21 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	20.6 W	23.0 W	A2	0.110 A	0.11 A	0.92	0.90	75 °C	-25 ... 65 °C
1 x 24 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	22.5 W	25.0 W	A2	0.120 A	0.11 A	0.97	0.95	75 °C	-25 ... 60 °C
1 x 28 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	27.9 W	31.0 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 60 °C
1 x 35 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	35.5 W	39.0 W	A2	0.180 A	0.17 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 39 W	T5	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	38.0 W	41.0 W	A2	0.190 A	0.18 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 22 W	T5c	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	23.5 W	25.5 W	A2	0.120 A	0.11 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 40 W	T5c	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	40.0 W	43.0 W	A2	0.200 A	0.19 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 18 W	T8	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	17.0 W	18.5 W	A2	0.090 A	0.09 A	0.91	0.89	75 °C	-25 ... 65 °C
1 x 30 W	T8	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	26.5 W	29.5 W	A2	0.140 A	0.13 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 36 W	T8	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	32.0 W	34.5 W	A2	0.160 A	0.15 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 18 W	TC-F	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	15.5 W	16.5 W	A2	0.080 A	0.08 A	0.91	0.89	75 °C	-25 ... 65 °C
1 x 24 W	TC-F	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	23.0 W	25.0 W	A2	0.120 A	0.11 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 36 W	TC-F	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	30.5 W	33.0 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 18 W	TC-L	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	15.5 W	17.0 W	A2	0.090 A	0.08 A	0.91	0.89	75 °C	-25 ... 65 °C
1 x 24 W	TC-L	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	23.0 W	24.5 W	A2	0.110 A	0.11 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 36 W	TC-L	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	30.5 W	33.0 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 65 °C
1 x 40 W	TC-L	PC 1/14-35/24/39 T5 PRO-M Ip	22176182	360 x 30 x 21 mm	350 mm	40.0 W	42.0 W	A2	0.190 A	0.18 A	0.98	0.96	75 °C	-25 ... 60 °C
1 x 14 W	T5	PC 1/14-35/49/54 T5 PRO-M Ip	22176183	360 x 30 x 21 mm	350 mm	14.0 W	16.5 W	A2	0.085 A	0.08 A	0.89	0.85	75 °C	-25 ... 65 °C
1 x 21 W	T5	PC 1/14-35/49/54 T5 PRO-M Ip	22176183	360 x 30 x 21 mm	350 mm	20.6 W	23.0 W	A2	0.120 A	0.11 A	0.92	0.90	75 °C	-25 ... 60 °C
1 x 28 W	T5	PC 1/14-35/49/54 T5 PRO-M Ip	22176183	360 x 30 x 21 mm	350 mm	27.9 W	31.0 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 60 °C
1 x 35 W	T5	PC 1/14-35/49/54 T5 PRO-M Ip	22176183	360 x 30 x 21 mm	350 mm	35.5 W	39.0 W	A2	0.180 A	0.17 A	0.98	0.96	75 °C	-25 ... 55 °C
1 x 49 W	T5	PC 1/14-35/49/54 T5 PRO-M Ip	22176183	360 x 30 x 21 mm	350 mm	49.2 W	52.5 W	A2	0.240 A	0.23 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 54 W	T5	PC 1/14-35/49/54 T5 PRO-M Ip	22176183	360 x 30 x 21 mm	350 mm	54.1 W	58.0 W	A2	0.270 A	0.25 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 58 W	T8	PC 1/14-35/49/54 T5 PRO-M Ip	22176183	360 x 30 x 21 mm	350 mm	50.0 W	54.0 W	A2	0.250 A	0.23 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 14 W	T5	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	14.0 W	16.5 W	A2	0.085 A	0.08 A	0.89	0.85	75 °C	-25 ... 60 °C
1 x 21 W	T5	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	20.6 W	24.0 W	A2	0.120 A	0.11 A	0.92	0.90	75 °C	-25 ... 60 °C
1 x 28 W	T5	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	27.9 W	31.5 W	A2	0.150 A	0.14 A	0.97	0.95	75 °C	-25 ... 60 °C
1 x 35 W	T5	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	35.5 W	39.0 W	A2	0.180 A	0.17 A	0.98	0.96	70 °C	-25 ... 55 °C
1 x 49 W	T5	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	49.2 W	53.5 W	A2	0.250 A	0.23 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 80 W	T5	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	79.8 W	85.0 W	A2	0.390 A	0.37 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 55 W	T5c	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	55.0 W	59.5 W	A2	0.280 A	0.26 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 55 W	TC-L	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	55.0 W	59.0 W	A2	0.270 A	0.25 A	0.99	0.97	75 °C	-25 ... 55 °C
1 x 80 W	TC-L	PC 1/14-35/49/80 T5 PRO-M Ip	22176184	360 x 30 x 21 mm	350 mm	80.0 W	84.0 W	A2	0.390 A	0.36 A	0.99	0.97	75 °C	-25 ... 55 °C
<b>For luminaires with 2 lamps</b>														
2 x 14 W	T5	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	28.0 W	32.0 W	A2	0.150 A	0.14 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 21 W	T5	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	41.2 W	47.0 W	A2	0.220 A	0.21 A	0.97	0.95	70 °C	-25 ... 50 °C
2 x 24 W	T5	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	45.0 W	49.0 W	A2	0.230 A	0.21 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 39 W	T5	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	76.0 W	82.0 W	A2	0.380 A	0.35 A	0.99	0.97	75 °C	-25 ... 55 °C
2 x 22 W	T5c	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	46.5 W	48.0 W	A2	0.220 A	0.21 A	0.98	0.96	75 °C	-25 ... 60 °C
2 x 40 W	T5c	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	80.0 W	85.0 W	A2	0.390 A	0.37 A	0.99	0.97	75 °C	-25 ... 55 °C
2 x 18 W	T8	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	32.0 W	35.0 W	A2	0.170 A	0.16 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 36 W	T8	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	64.0 W	68.5 W	A2	0.320 A	0.30 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 18 W	TC-F	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	32.0 W	34.0 W	A2	0.160 A	0.15 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 24 W	TC-F	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	46.0 W	47.5 W	A2	0.220 A	0.21 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 36 W	TC-F	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	61.0 W	67.5 W	A2	0.310 A	0.29 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 18 W	TC-L	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	32.0 W	35.0 W	A2	0.170 A	0.16 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 24 W	TC-L	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	46.0 W	47.5 W	A2	0.220 A	0.21 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 36 W	TC-L	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	61.0 W	67.5 W	A2	0.310 A	0.29 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 40 W	TC-L	PC 2/14-21/24/39 T5 PRO-M Ip	22176185	360 x 30 x 21 mm	350 mm	80.0 W	84.5 W	A2	0.390 A	0.36 A	0.99	0.97	75 °C	-25 ... 55 °C
2 x 14 W	T5	PC 2/14-35/49/54 T5 PRO-M Ip	22176186	360 x 30 x 21 mm	350 mm	28.0 W	32.0 W	A2	0.150 A	0.14 A	0.96	0.94	75 °C	-25 ... 60 °C
2 x 21 W	T5	PC 2/14-35/49/54 T5 PRO-M Ip	22176186	360 x 30 x 21 mm	350 mm	41.2 W	45.0 W	A2	0.210 A	0.20 A	0.97	0.95	75 °C	-25 ... 60 °C
2 x 28 W	T5	PC 2/14-35/49/54 T5 PRO-M Ip	22176186	360 x 30 x 21 mm	350 mm	55.8 W	61.0 W	A2	0.280 A	0.26 A	0.98	0.96	75 °C	-25 ... 55 °C
2 x 35 W	T5	PC 2/14-35/49/54 T5 PRO-M Ip	22176186	360 x 30 x 21 mm	350 mm	71.0 W	76.5 W	A2	0.350 A	0.33 A	0.98	0.96	70 °C	-25 ... 50 °C
2 x 49 W	T5	PC 2/14-35/49/54 T5 PRO-M Ip	22176186	360 x 30 x 21 mm	350 mm	98.4 W	105.0 W	A2	0.480 A	0.45 A	0.99	0.97	75 °C	-25 ... 50 °C
2 x 54 W	T5	PC 2/14-35/49/54 T5 PRO-M Ip	22176186	360 x 30 x 21 mm	350 mm	108.2 W	117.0 W	A2	0.540 A	0.50 A	0.99	0.97	75 °C	-25 ... 50 °C
2 x 58 W	T8	PC 2/14-35/49/54 T5 PRO-M Ip	22176186	360 x 30 x 21 mm	350 mm	100.0 W	108.0 W	A2	0.500 A	0.46 A	0.99	0.97	70 °C	-25 ... 50 °C



**PC BASIC, 4 – 28 W**  
ECG for circuit power < 25 W

**Product description**

- CELMA Energy Efficiency Index A2 / A3
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Printed circuit board without case available on request
  - Large temperature range (for values see table)
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 264 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	270 V AC, 360 h
Defined warm start	≤ 2 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Product / function matrix, page 8

Lamp matrix, page 13 and 14

Wiring diagrams and installation examples, page 50

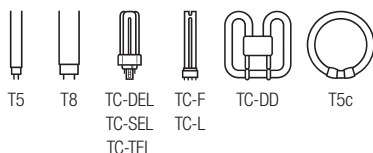
**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x4-13 W BASIC	24138831	25 pieces	1,100 pieces	0.042 kg
PC 1x5-16 W BASIC	24138830	25 pieces	1,100 pieces	0.042 kg
PC 1x18 W BASIC	24138829	25 pieces	1,100 pieces	0.042 kg
PC 1x26 W BASIC	22176208	25 pieces	1,100 pieces	0.042 kg

**Specific technical data**

Lamp-wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 4 W	T5	PC 1x4-13 W BASIC	24138831	80 x 40 x 21 mm	70 mm	3.5 W	5.0 W	A2	0.045 A	0.043 A	0.51	0.48	80 °C	-25 ... 50 °C
1 x 6 W	T5	PC 1x4-13 W BASIC	24138831	80 x 40 x 21 mm	70 mm	5.0 W	7.0 W	A2	0.059 A	0.057 A	0.54	0.51	80 °C	-25 ... 50 °C
1 x 8 W	T5	PC 1x4-13 W BASIC	24138831	80 x 40 x 21 mm	70 mm	6.5 W	8.5 W	A2	0.067 A	0.063 A	0.58	0.56	80 °C	-25 ... 50 °C
1 x 13 W	T5	PC 1x4-13 W BASIC	24138831	80 x 40 x 21 mm	70 mm	11.0 W	15.5 W	A3	0.114 A	0.106 A	0.62	0.61	80 °C	-25 ... 50 °C
1 x 10 W	TC-DD	PC 1x4-13 W BASIC	24138831	80 x 40 x 21 mm	70 mm	9.0 W	11.5 W	A3	0.087 A	0.081 A	0.60	0.59	80 °C	-25 ... 50 °C
1 x 16 W	TC-DD	PC 1x5-16 W BASIC	24138830	80 x 40 x 21 mm	70 mm	14.0 W	18.0 W	A3	0.130 A	0.121 A	0.63	0.62	85 °C	-25 ... 50 °C
1 x 10 W	TC-DEL	PC 1x5-16 W BASIC	24138830	80 x 40 x 21 mm	70 mm	8.5 W	11.5 W	A3	0.089 A	0.084 A	0.59	0.57	85 °C	-25 ... 50 °C
1 x 13 W	TC-DEL	PC 1x5-16 W BASIC	24138830	80 x 40 x 21 mm	70 mm	12.0 W	15.5 W	A3	0.112 A	0.106 A	0.63	0.61	85 °C	-25 ... 50 °C
1 x 5 W	TC-SEL	PC 1x5-16 W BASIC	24138830	80 x 40 x 21 mm	70 mm	4.5 W	6.5 W	A2	0.055 A	0.051 A	0.54	0.53	85 °C	-25 ... 50 °C
1 x 7 W	TC-SEL	PC 1x5-16 W BASIC	24138830	80 x 40 x 21 mm	70 mm	6.0 W	8.0 W	A2	0.065 A	0.063 A	0.56	0.53	85 °C	-25 ... 50 °C
1 x 9 W	TC-SEL	PC 1x5-16 W BASIC	24138830	80 x 40 x 21 mm	70 mm	7.5 W	10.0 W	A2	0.078 A	0.073 A	0.58	0.57	85 °C	-25 ... 50 °C
1 x 11 W	TC-SEL	PC 1x5-16 W BASIC	24138830	80 x 40 x 21 mm	70 mm	11.0 W	15.0 W	A3	0.110 A	0.104 A	0.62	0.60	85 °C	-25 ... 50 °C
1 x 13 W	TC-TEL	PC 1x5-16 W BASIC	24138830	80 x 40 x 21 mm	70 mm	11.5 W	15.5 W	A3	0.112 A	0.106 A	0.63	0.61	85 °C	-25 ... 50 °C
1 x 18 W	TC-DEL	PC 1x18 W BASIC	24138829	80 x 40 x 21 mm	70 mm	15.5 W	19.0 W	A3	0.135 A	0.128 A	0.64	0.62	85 °C	-25 ... 50 °C
1 x 18 W	TC-TEL	PC 1x18 W BASIC	24138829	80 x 40 x 21 mm	70 mm	15.0 W	19.0 W	A3	0.135 A	0.128 A	0.64	0.62	85 °C	-25 ... 50 °C
1 x 28 W	TC-DD	PC 1x26 W BASIC <sup>Ⓢ</sup>	22176208	80 x 40 x 21 mm	70 mm	21.5 W	25.0 W	A2	0.180 A	0.170 A	0.62	0.61	80 °C	-25 ... 45 °C
1 x 26 W	TC-DEL	PC 1x26 W BASIC	22176208	80 x 40 x 21 mm	70 mm	20.5 W	24.0 W	A2	0.180 A	0.170 A	0.62	0.61	80 °C	-25 ... 50 °C
1 x 26 W	TC-TEL	PC 1x26 W BASIC	22176208	80 x 40 x 21 mm	70 mm	21.0 W	24.5 W	A2	0.180 A	0.170 A	0.62	0.61	80 °C	-25 ... 50 °C

<sup>Ⓢ</sup> For enclosed luminaires to fulfill the requirement of circuit power ≤ 25 W according to EN 61000-3-2. For AC operation only.



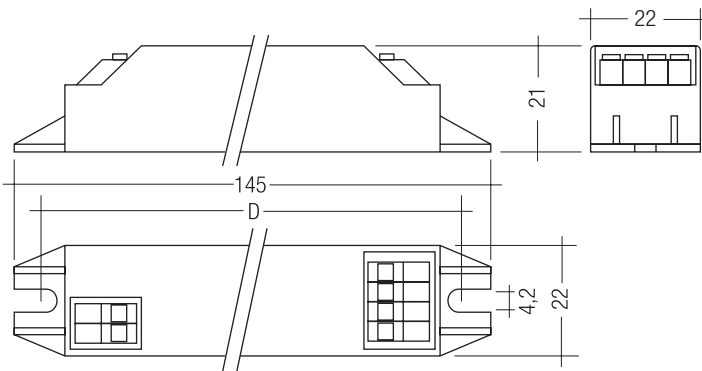
**PC BASIC sl, 4 – 28 W**  
ECG for circuit power < 25 W

**Product description**

- CELMA Energy Efficiency Index A2 / A3
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 264 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	270 V AC, 360 h
Defined warm start	≤ 2 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Product / function matrix, page 8

Lamp matrix, page 13 and 14

Wiring diagrams and installation examples, page 50

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x4-13 W BASIC sl	24138834	25 pieces	1,150 pieces	0.044 kg
PC 1x5-16 W BASIC sl	24138833	25 pieces	1,150 pieces	0.044 kg
PC 1x18 W BASIC sl	24138832	25 pieces	1,150 pieces	0.044 kg
PC 1x18-24 W BASIC sl	22176000	25 pieces	1,150 pieces	0.055 kg
PC 1x14-21 W BASIC sl	22176001	25 pieces	1,150 pieces	0.055 kg
PC 1x26 W BASIC sl	22176002	25 pieces	1,150 pieces	0.055 kg

Specific technical data

Lamp-wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
<b>For luminaires with 1 lamp</b>														
1 x 4 W	T5	PC 1x4-13 W BASIC sl	24138834	145 x 22 x 21 mm	136 mm	3.5 W	5.0 W	A2	0.045 A	0.043 A	0.51	0.48	85 °C	-25 ... 60 °C
1 x 6 W	T5	PC 1x4-13 W BASIC sl	24138834	145 x 22 x 21 mm	136 mm	5.0 W	7.0 W	A2	0.059 A	0.057 A	0.54	0.51	85 °C	-25 ... 60 °C
1 x 8 W	T5	PC 1x4-13 W BASIC sl	24138834	145 x 22 x 21 mm	136 mm	6.5 W	8.5 W	A2	0.067 A	0.063 A	0.58	0.56	85 °C	-25 ... 60 °C
1 x 13 W	T5	PC 1x4-13 W BASIC sl	24138834	145 x 22 x 21 mm	136 mm	11.0 W	15.5 W	A3	0.114 A	0.106 A	0.62	0.61	85 °C	-25 ... 60 °C
1 x 10 W	TC-DD	PC 1x4-13 W BASIC sl	24138834	145 x 22 x 21 mm	136 mm	9.0 W	11.5 W	A3	0.087 A	0.081 A	0.60	0.59	85 °C	-25 ... 60 °C
1 x 16 W	TC-DD	PC 1x5-16 W BASIC sl	24138833	145 x 22 x 21 mm	136 mm	14.0 W	18.0 W	A3	0.130 A	0.121 A	0.63	0.62	90 °C	-25 ... 60 °C
1 x 10 W	TC-DEL	PC 1x5-16 W BASIC sl	24138833	145 x 22 x 21 mm	136 mm	8.5 W	11.5 W	A3	0.089 A	0.084 A	0.59	0.57	90 °C	-25 ... 60 °C
1 x 13 W	TC-DEL	PC 1x5-16 W BASIC sl	24138833	145 x 22 x 21 mm	136 mm	11.8 W	15.5 W	A3	0.112 A	0.106 A	0.63	0.61	90 °C	-25 ... 60 °C
1 x 5 W	TC-SEL	PC 1x5-16 W BASIC sl	24138833	145 x 22 x 21 mm	136 mm	4.5 W	6.5 W	A2	0.055 A	0.051 A	0.54	0.53	90 °C	-25 ... 60 °C
1 x 7 W	TC-SEL	PC 1x5-16 W BASIC sl	24138833	145 x 22 x 21 mm	136 mm	6.0 W	8.0 W	A2	0.065 A	0.063 A	0.56	0.53	90 °C	-25 ... 60 °C
1 x 9 W	TC-SEL	PC 1x5-16 W BASIC sl	24138833	145 x 22 x 21 mm	136 mm	7.5 W	10.0 W	A2	0.078 A	0.073 A	0.58	0.57	90 °C	-25 ... 60 °C
1 x 11 W	TC-SEL	PC 1x5-16 W BASIC sl	24138833	145 x 22 x 21 mm	136 mm	11.0 W	15.0 W	A3	0.110 A	0.104 A	0.62	0.60	90 °C	-25 ... 60 °C
1 x 13 W	TC-TEL	PC 1x5-16 W BASIC sl	24138833	145 x 22 x 21 mm	136 mm	12.0 W	15.5 W	A3	0.112 A	0.106 A	0.63	0.61	90 °C	-25 ... 60 °C
1 x 18 W	TC-DEL	PC 1x18 W BASIC sl	24138832	145 x 22 x 21 mm	136 mm	15.5 W	19.0 W	A3	0.135 A	0.128 A	0.64	0.62	90 °C	-25 ... 60 °C
1 x 18 W	TC-TEL	PC 1x18 W BASIC sl	24138832	145 x 22 x 21 mm	136 mm	15.0 W	19.0 W	A3	0.135 A	0.128 A	0.64	0.62	90 °C	-25 ... 60 °C
1 x 24 W	T5	PC 1x18-24 W BASIC sl	22176000	145 x 22 x 21 mm	136 mm	21.5 W	25.0 W	A2	0.180 A	0.170 A	0.62	0.61	85 °C	-25 ... 60 °C
1 x 22 W	T5c	PC 1x18-24 W BASIC sl	22176000	145 x 22 x 21 mm	136 mm	21.5 W	23.5 W	A2	0.180 A	0.170 A	0.62	0.61	85 °C	-25 ... 60 °C
1 x 18 W	T8	PC 1x18-24 W BASIC sl	22176000	145 x 22 x 21 mm	136 mm	15.5 W	18.0 W	A2	0.140 A	0.130 A	0.60	0.58	85 °C	-25 ... 60 °C
1 x 18 W	TC-F	PC 1x18-24 W BASIC sl	22176000	145 x 22 x 21 mm	136 mm	13.0 W	16.0 W	A2	0.120 A	0.120 A	0.68	0.57	85 °C	-25 ... 60 °C
1 x 24 W	TC-F	PC 1x18-24 W BASIC sl	22176000	145 x 22 x 21 mm	136 mm	19.0 W	22.5 W	A3	0.170 A	0.150 A	0.61	0.60	85 °C	-25 ... 60 °C
1 x 18 W	TC-L	PC 1x18-24 W BASIC sl	22176000	145 x 22 x 21 mm	136 mm	14.0 W	16.5 W	A2	0.130 A	0.120 A	0.59	0.58	85 °C	-25 ... 60 °C
1 x 24 W	TC-L	PC 1x18-24 W BASIC sl	22176000	145 x 22 x 21 mm	136 mm	21.5 W	24.0 W	A3	0.180 A	0.170 A	0.62	0.61	85 °C	-25 ... 60 °C
1 x 14 W	T5	PC 1x14-21 W BASIC sl	22176001	145 x 22 x 21 mm	136 mm	12.5 W	14.5 W	A2	0.117 A	0.120 A	0.58	0.57	85 °C	-25 ... 60 °C
1 x 21 W	T5	PC 1x14-21 W BASIC sl	22176001	145 x 22 x 21 mm	136 mm	17.5 W	20.0 W	A2	0.147 A	0.151 A	0.60	0.60	85 °C	-25 ... 60 °C
1 x 28 W	TC-DD	PC 1x26 W BASIC sl	22176002	145 x 22 x 21 mm	136 mm	21.5 W	25.0 W	A2	0.180 A	0.170 A	0.62	0.61	90 °C	-25 ... 50 °C
1 x 26 W	TC-DEL	PC 1x26 W BASIC sl	22176002	145 x 22 x 21 mm	136 mm	20.5 W	24.0 W	A2	0.180 A	0.170 A	0.62	0.61	90 °C	-25 ... 60 °C
1 x 26 W	TC-TEL	PC 1x26 W BASIC sl	22176002	145 x 22 x 21 mm	136 mm	21.0 W	24.5 W	A2	0.180 A	0.170 A	0.62	0.61	90 °C	-25 ... 60 °C



**PC BASIC sl, 8 W**  
ECG for circuit power < 25 W

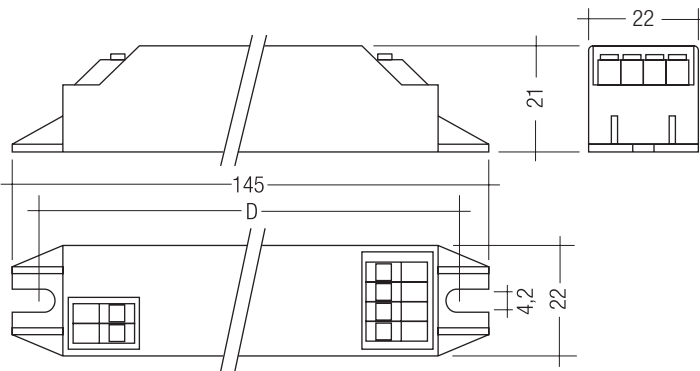
**Product description**

- CELMA Energy Efficiency Index A2
  - Nominal life time up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
  - Large temperature range (for values see table)
  - Automatic start after replacement of defective lamps
  - Safety shutdown of defective lamps and at end of lamp life
  - For emergency lighting systems as per EN 50172
  - Temperature protection as per EN 61347-2-3 C5e
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 264 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	270 V AC, 360 h
Defined warm start	≤ 1 s
Operating frequency	≥ 40 kHz
Type of protection	IP20



Product / function matrix, page 8

Lamp matrix, page 13

Wiring diagrams and installation examples, page 50

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PC 1x8 W BASIC sl	22176026	25 pieces	1,150 pieces	0.055 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	EEI	Current at 50 Hz		λ at 50 Hz		tc point max.	Ambient temperature ta
									220 V	240 V	220 V	240 V		
1 x 8 W	T5	PC 1x8 W BASIC sl	22176026	145 x 22 x 21 mm	136 mm	6.8 W	8.7 W	A2	0.075 A	0.071 A	0.53	0.51	80 °C	-25 ... 60 °C

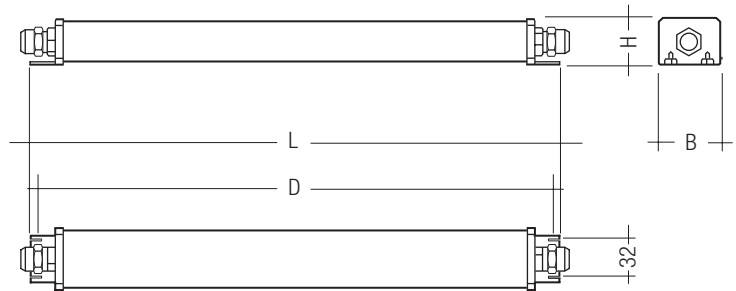


RoHS

**IP 44 KIT**  
Mounting components

**Product description**

- Protective casing for electronic ballasts
  - For outdoor applications with high relative humidity
  - IP 4x = protected against solid objects over 1 mm
  - IP x4 = splash-proof
  - Profile inside dimension approx. 46 x 32 mm
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Ordering data**

Type	Article number	Dimensions L x W x H	Distance between mounting holes (D)	Packaging, carton	Packaging, pallet
IP 44 KIT SHORT	24138842	345 x 53 x 39 mm	335 mm	40 pieces	500 pieces
IP 44 KIT LONG	24166189	520 x 53 x 39 mm	510 mm	40 pieces	500 pieces

RoHS

### PC compact gear box Mounting components

#### Product description

- Box for compact electronic ballasts
  - Surface mounted casing for all compact casing sizes in the "fixed output", "dimming" and "emergency lighting" product ranges (except PC BASIC)
  - No tools required for installation
  - 2 cable clamps on the mains side
  - Suitable for through-wiring
  - Slot for luminaire terminal
  - Fixing option on the mains side
  - Ideal for ceiling openings of diameter  $\geq 150$  mm and for mounting depths  $\geq 100$  mm
  - Available as upper and lower sections
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

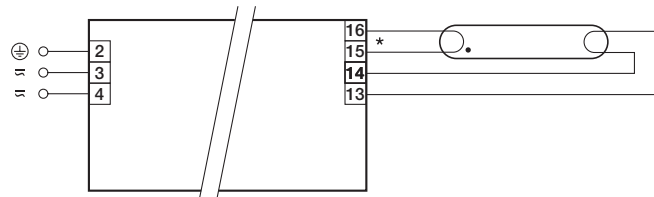


#### Ordering data

Type	Article number	Dimensions L x W x H	Packaging, pallet
PC Ballast box, upper section	<b>24138824</b>	278 x 114 x 55 mm	480 pieces
PC Ballast box, lower section	<b>24138825</b>	278 x 114 x 55 mm	480 pieces

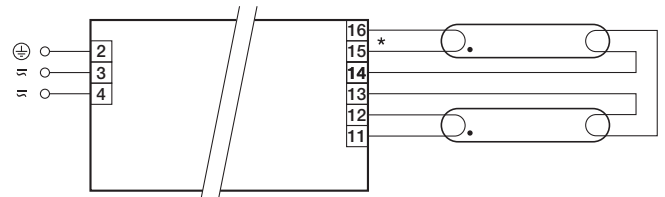
PC T5 PRO Ip

PC 1x... T5 PRO Ip



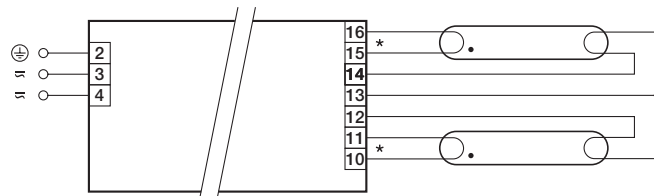
\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 13, 14 max. 2.0 m (< 200 pF)

PC 2x24 T5 PRO Ip / PC 2x39 T5 PRO Ip / PC 2x54 T5 PRO Ip / PC 2x80 T5 PRO Ip



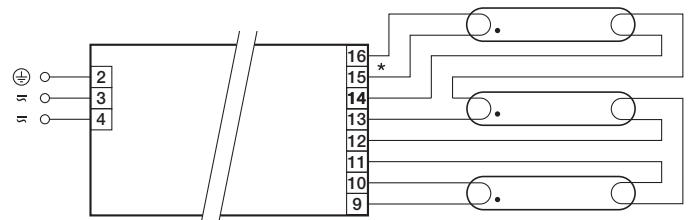
\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

PC 2x14-35 T5 PRO Ip / PC 2x49 T5 PRO Ip



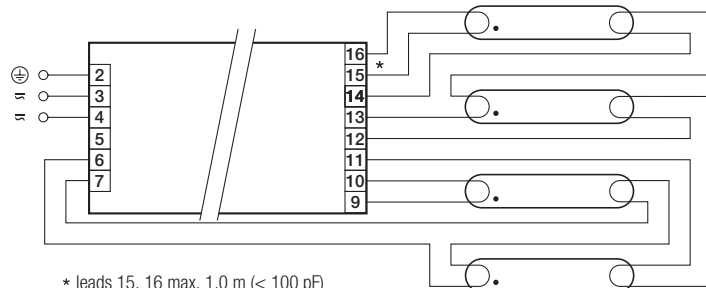
\* leads 10, 11, 15, 16 max. 1.0 m (< 100 pF)  
leads 12, 13, 14 max. 2.0 m (< 200 pF)

PC 3x... T5 PRO Ip



\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

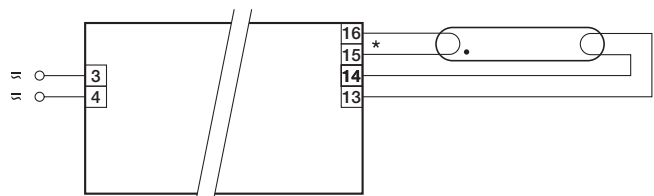
PC 4x... T5 PRO Ip



\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

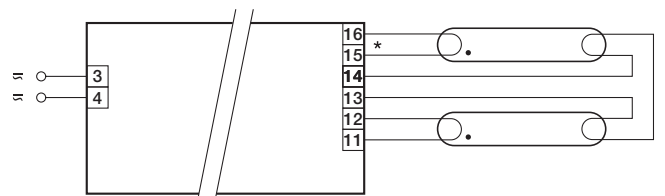
PC T8 PRO Ip, PC T8 PRO sl

PC 1x... T8 PRO Ip



\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 13, 14 max. 2.0 m (< 200 pF)

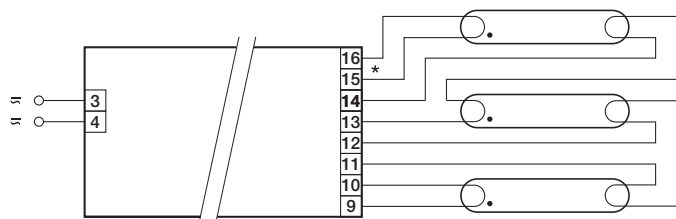
PC 2x... T8 PRO Ip/sl



\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

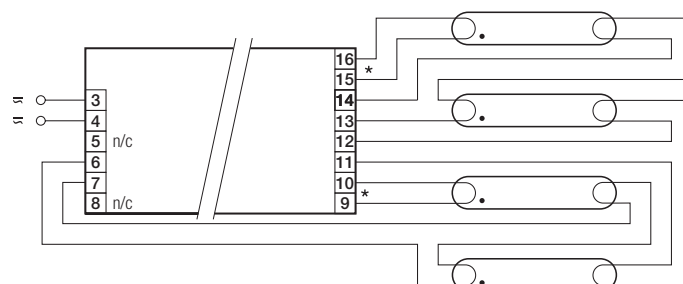


PC 3x... T8 PRO Ip



\* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

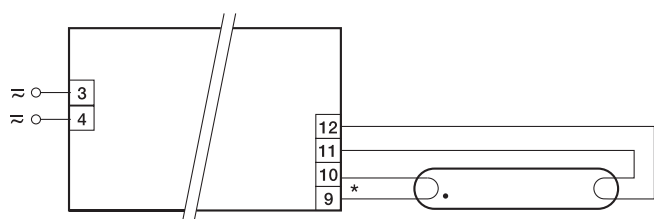
PC 4x... T8 PRO Ip



\* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)  
leads 6, 7, 11, 12, 13, 14 max. 2.0 m (< 200 pF)

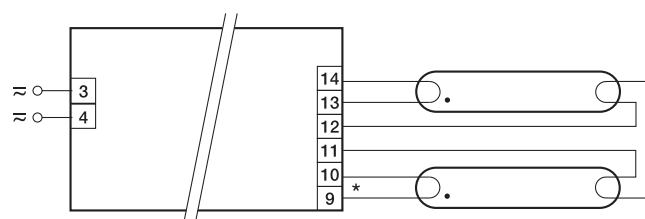
### PC T8 PRO

PC 1x30 T8 PRO / PC 1x70 T8 PRO / PC 1/... TCL PRO



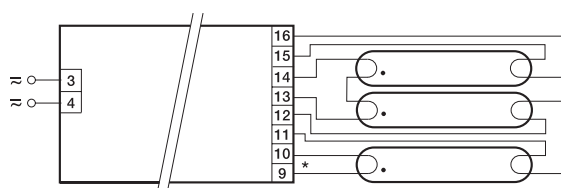
\* leads 9, 10 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via ECG casing (to IEC 60598)  
For luminaires of protection class II: No earthing required

PC 2x30 T8 PRO / PC 2x70 T8 PRO / PC 2/... TCL PRO



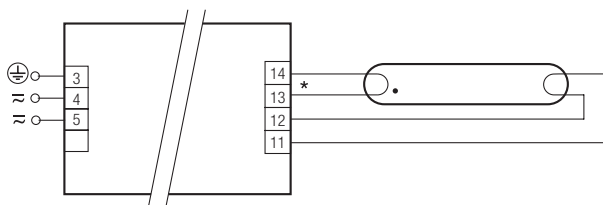
\* leads 9, 10 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via ECG casing (to IEC 60598)  
For luminaires of protection class II: No earthing required

PC 3x36 T8 PRO



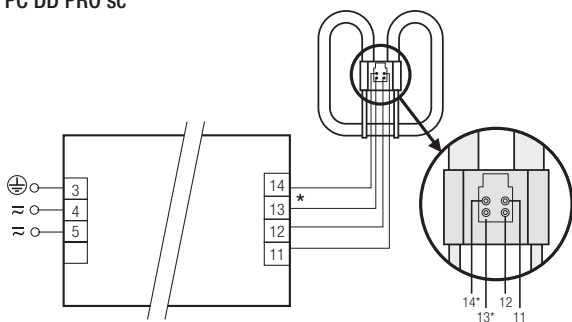
\* leads 9, 10 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14, 15, 16 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via ECG casing (to IEC 60598)  
For luminaires of protection class II: No earthing required

PC T8 PRO sc



- \* leads 13, 14 max. 1.0 m (< 100 pF)
- leads 11, 12 max. 2.0 m (< 200 pF)
- For luminaires of protection class I: Earthing via ECG casing or earth terminal (according to IEC 60598)
- For luminaires of protection class II: No earthing required

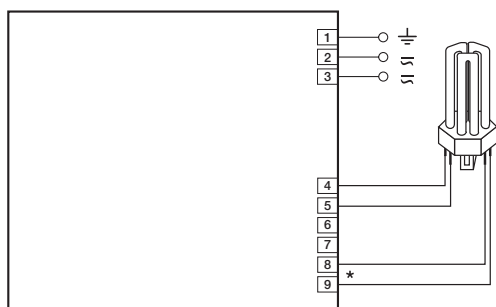
PC DD PRO sc



- \* leads 13, 14 max. 1.0 m (< 100 pF)
- leads 11, 12 max. 2.0 m (< 200 pF)
- For luminaires of protection class I: Earthing via ECG casing or earth terminal (according to IEC 60598)
- For luminaires of protection class II: No earthing required

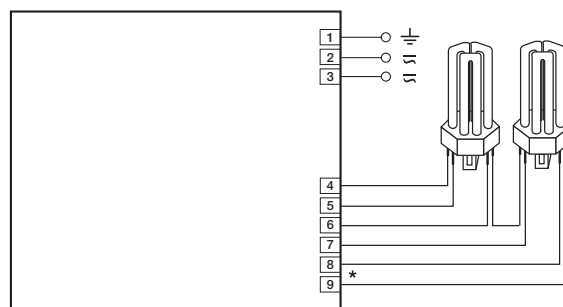
PC TC PRO

PC TC PRO with 1 lamp



- \* leads 8, 9 max. 1.0 m (< 100 pF)
- leads 4, 5 max. 2.0 m (< 200 pF)
- For luminaires of protection class I: Earthing via earth terminal (according to IEC 60598)
- For luminaires of protection class II: No earthing required

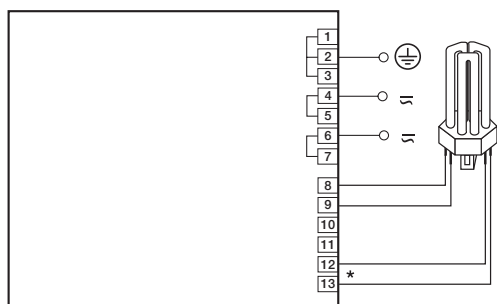
PC TC PRO with 2 lamps



- \* leads 8, 9 max. 1.0 m (< 100 pF)
- leads 4, 5, 6, 7 max. 2.0 m (< 200 pF)
- For luminaires of protection class I: Earthing via earth terminal (according to IEC 60598)
- For luminaires of protection class II: No earthing required

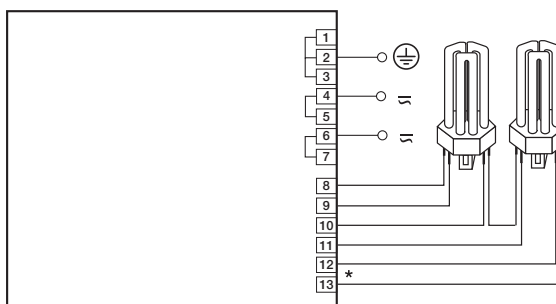
PC TC PRO sr+

PC TC PRO sr+ with 1 lamp



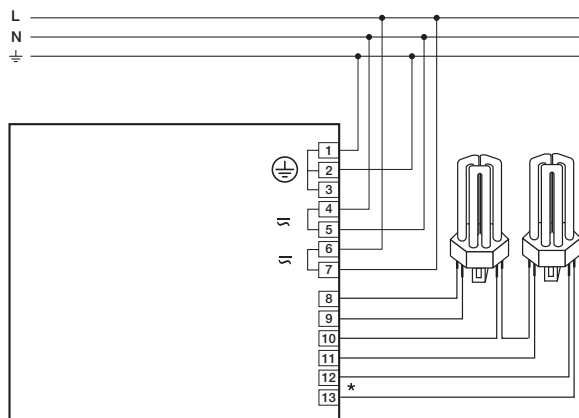
\* leads 12, 13 max. 1.0 m (< 100 pF)  
leads 8, 9 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via earth terminal (according to IEC 60598)  
For luminaires of protection class II: No earthing required

PC TC PRO sr+ with 2 lamps



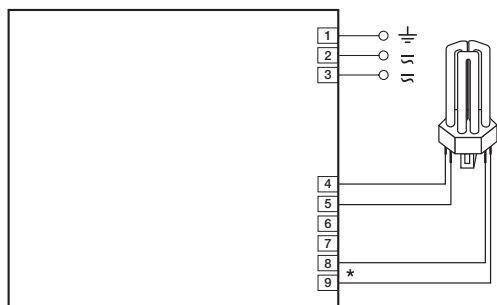
\* leads 12, 13 max. 1.0 m (< 100 pF)  
leads 8, 9, 10, 11 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via earth terminal (according to IEC 60598)  
For luminaires of protection class II: No earthing required

PC TC PRO sr+ with through wiring



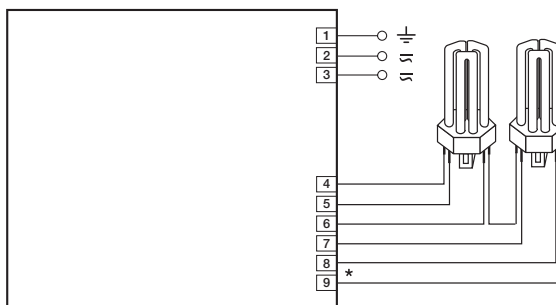
PC TC PRO sr

PC TC PRO sr with 1 lamp



\* leads 8, 9 max. 1.0 m (< 100 pF)  
leads 4, 5 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via earth terminal (according to IEC 60598)  
For luminaires of protection class II: No earthing required

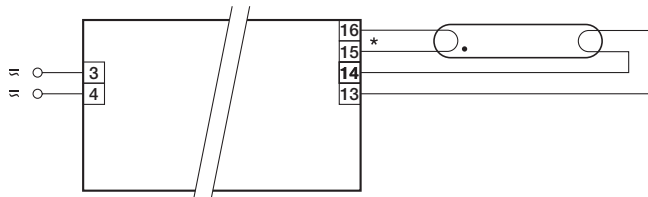
PC TC PRO sr with 2 lamps



\* leads 8, 9 max. 1.0 m (< 100 pF)  
leads 4, 5, 6, 7 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via earth terminal (according to IEC 60598)  
For luminaires of protection class II: No earthing required

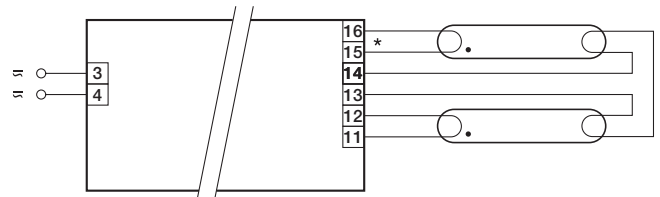
PC T5 TOP Ip

PC 1x... T5 TOP Ip



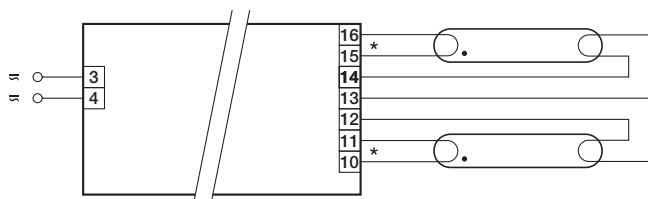
\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 13, 14 max. 2.0 m (< 200 pF)

PC 2x24 T5 TOP Ip / PC 2x39 T5 TOP Ip / PC 2x54 T5 TOP Ip



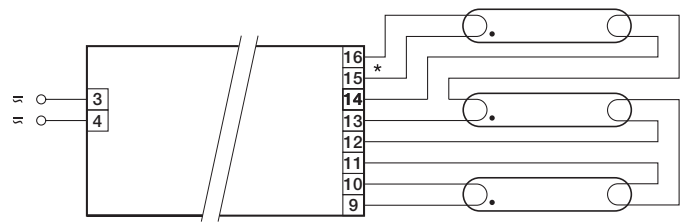
\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

PC 2x14–28 T5 TOP Ip / PC 2x35 T5 TOP Ip / PC 2x49 T5 TOP Ip



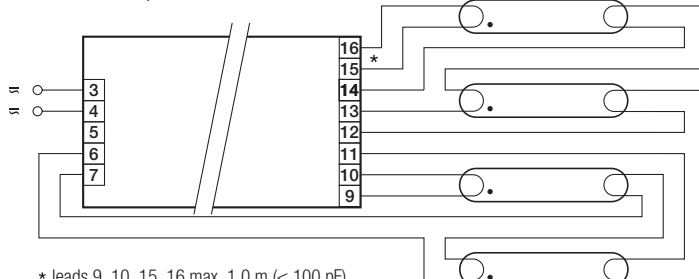
\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 10, 11, 12, 13, 14 max. 2.0 m (< 200 pF)

PC 3x... T5 TOP Ip



\* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

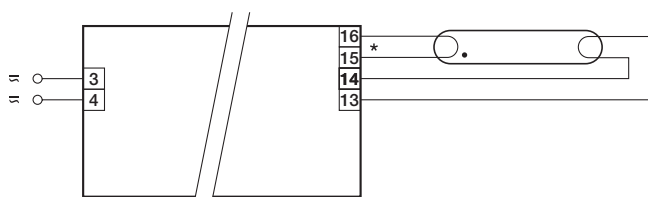
PC 4x... T5 TOP Ip



\* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)  
leads 6, 7, 11, 12, 13, 14 max. 2.0 m (< 200 pF)

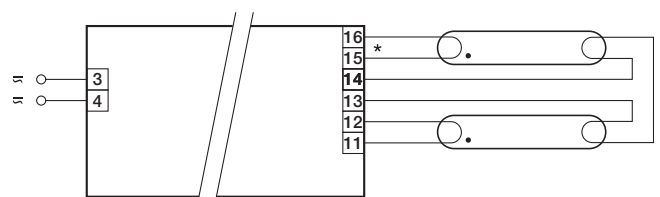
PC T8 TOP Ip, PC T8 TOP sl

PC 1x... T8 TOP sl



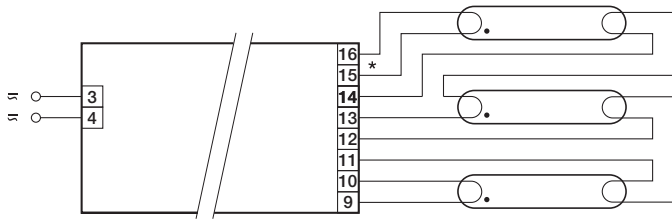
\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 13, 14 max. 2.0 m (< 200 pF)

PC 2x... T8 TOP sl



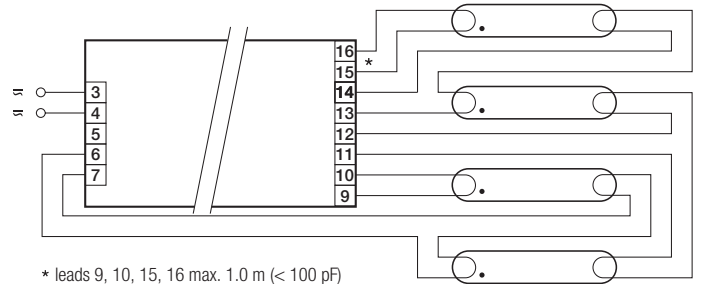
\* leads 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

PC 3x... T8 TOP Ip



\* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)

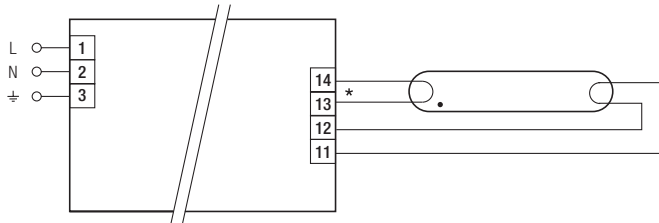
PC 4x... T8 TOP Ip



\* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)  
leads 6, 7, 11, 12, 13, 14 max. 2.0 m (< 200 pF)

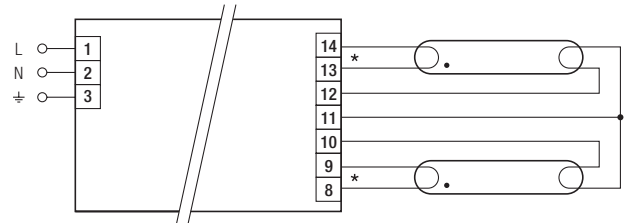
### PC T5 TEC

PC 1x... T5 TEC



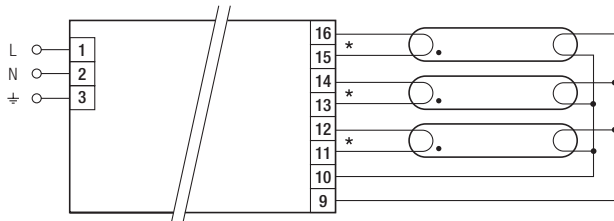
\* leads 13, 14 max. 1.0 m (< 100 pF)  
leads 11, 12 max. 2.0 m (< 200 pF)

PC 2x... T5 TEC



\* leads 8, 9, 13, 14 max. 1.0 m (< 100 pF)  
leads 10, 11, 12 max. 2.0 m (< 200 pF)

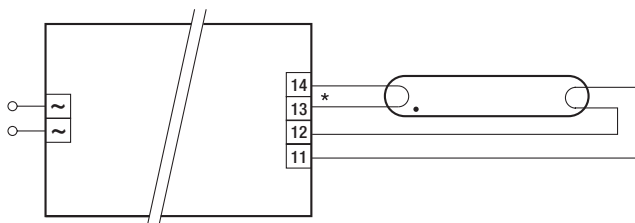
PC 3x... T5 TEC



\* leads 11, 12, 13, 14, 15, 16 max. 1.0 m (< 100 pF)  
leads 9, 10 max. 2.0 m (< 200 pF)

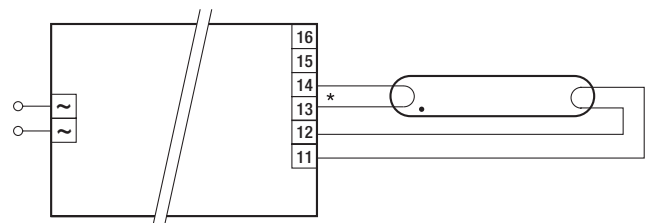
### PC T8 TEC

PC 1x18 T8 TEC



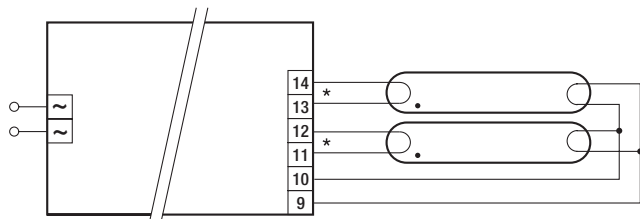
\* leads 13, 14 max. 1.0 m (< 100 pF)  
leads 11, 12 max. 2.0 m (< 200 pF)

PC 1x36 T8 TEC



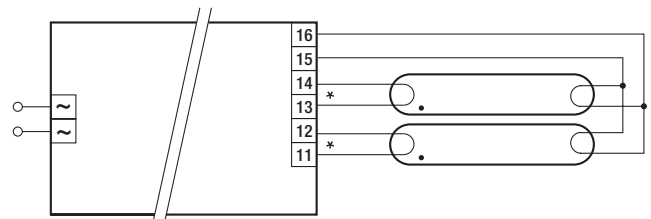
\* leads 13, 14 max. 1.0 m (< 100 pF)  
leads 11, 12 max. 2.0 m (< 200 pF)

PC 2x36 T8 TEC



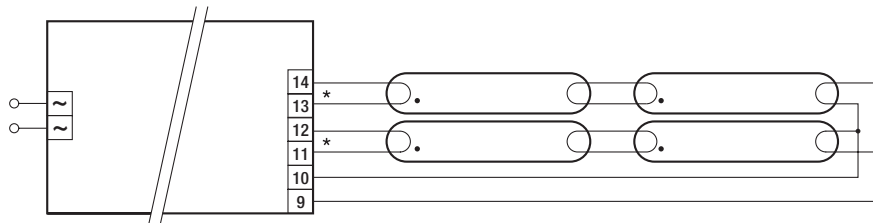
\* leads 11, 12, 13, 14 max. 1.0 m (< 100 pF)  
leads 9, 10 max. 2.0 m (< 200 pF)

PC 1x36 T8 TEC (2x18 W application)



\* leads 11, 12, 13, 14 max. 1.0 m (< 100 pF)  
leads 15, 16 max. 2.0 m (< 200 pF)

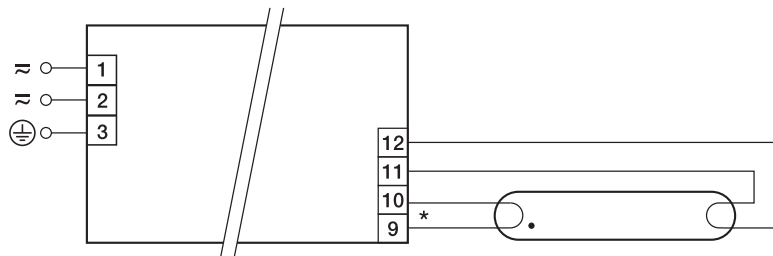
PC 2x36 T8 TEC (2x18 W application)



\* leads 11, 12, 13, 14 max. 1.0 m (< 100 pF)  
leads 9, 10 max. 2.0 m (< 200 pF)

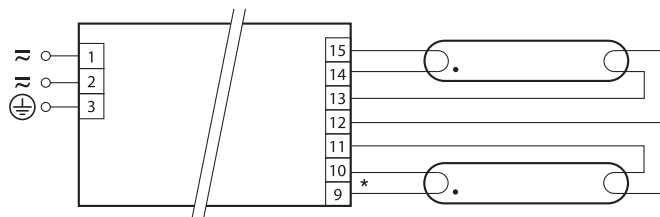
## PC INDUSTRY

PC 1/... T5 INDUSTRY / PC 1/... T8 INDUSTRY



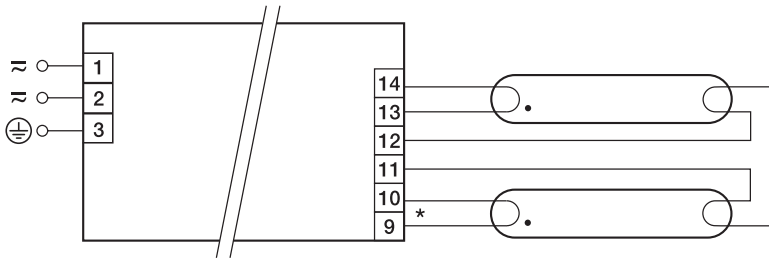
\* leads 9, 10 max. 1.0 m (< 100 pF)  
leads 11, 12 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via ECG casing or earth terminal (to IEC 60598)  
For luminaires of protection class II: No earthing required

PC 2/... T5 INDUSTRY



\* leads 9, 10 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via ECG casing or earth terminal (according to IEC 60598)  
For luminaires of protection class II: No earthing required

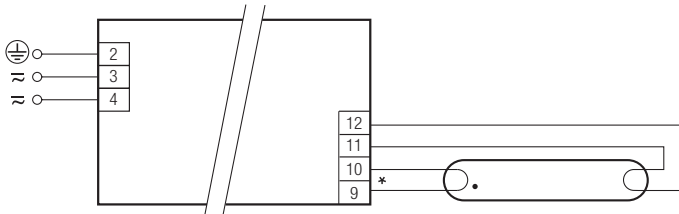
PC 2/... T8 INDUSTRY



\* leads 9, 10 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via ECG casing or earth terminal (to IEC 60598)  
For luminaires of protection class II: No earthing required

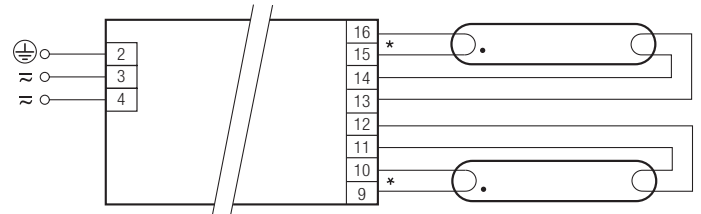
PC T5 PRO-M

PC 1/... T5 PRO-M Ip



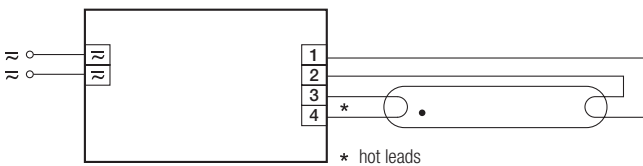
\* leads 9, 10 max. 1.0 m (< 100 pF)  
leads 11, 12 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via ECG casing or earth terminal (according to IEC 60598)  
For luminaires of protection class II: No earthing required

PC 2/... T5 PRO-M Ip



\* leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)  
leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)  
For luminaires of protection class I: Earthing via ECG casing or earth terminal (according to IEC 60598)  
For luminaires of protection class II: No earthing required

PC BASIC



\* leads 3, 4 max. 0.5 m (< 60 pF)  
leads 1, 2 max. 1.0 m (< 120 pF)

\* hot leads





## Overview

Technology overview for xtec	Page 62
Product overview xtec II	Page 63
Product / function matrix xtec II	Page 64
Lamp matrix	Page 66

## Product information xtec II

Digital dimmable ballasts for fluorescent lamps	Page 73
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### Series EXCEL one4all

#### T5 linear lamps

PCA T5 EXCEL one4all Ip xtec II, 14 – 80 W	Page 78			
PCA T5 EXCEL one4all Ip xtec, 3x14/24 W and 4x14/24 W	Page 80			

#### T8 linear lamps

PCA T8 EXCEL one4all Ip xtec II, 18 – 58 W	Page 82			
PCA T8 EXCEL one4all Ip xtec, 36 – 58 W	Page 84			
PCA T8 EXCEL one4all Ip xtec, 3x18 W and 4x18 W	Page 86			

#### Compact lamps and T5c circular fluorescent lamp

PCA TC EXCEL one4all xtec II, 11 – 57 W	Page 87			
PCA TCL EXCEL one4all c xtec II, 18 – 24 W	Page 87			
PCA T5c EXCEL one4all xtec II, 22 – 55 W	Page 87			
PCA TC-DD EXCEL one4all c xtec II, 28 W	Page 87			

Suitable for lamp type

T5	T8	CFL
•		•
•		
	•	
	•	
	•	
		•
		•
		•
		•

The innovative ballasts in the PCA EXCEL one4all series are so versatile and convenient that they are opening up new lighting solutions. They meet almost all specific requirements – both for luminaires and for applications.

The PCA ECO series supports all the usual digital communication standards (DALI, DSI) and in the highest quality. These devices combine performance with ecological and economic benefits.

### Series ECO

#### T5 linear lamps

PCA T5 ECO Ip xtec II, 14 – 80 W	Page 89			
PCA T5 ECO Ip xtec, 3x14/24 W and 4x14/24 W	Page 91			

#### T8 linear lamps

PCA T8 ECO Ip xtec II, 18 – 58 W	Page 92			
PCA T8 ECO Ip xtec, 36 – 58 W	Page 94			
PCA T8 ECO Ip xtec, 3x18 W and 4x18 W	Page 96			

#### Compact lamps and T5c circular fluorescent lamp

PCA TC ECO xtec II, 11 – 57 W	Page 97			
PCA TCL ECO c xtec II, 18 – 24 W	Page 97			
PCA T5c ECO xtec II, 22 – 55 W	Page 97			
PCA TC-DD ECO c xtec II, 28 W	Page 97			

T5	T8	CFL
•		•
•		
	•	
	•	
	•	
		•
		•
		•
		•

Ballasts from the PCA BASIC series focus essentially on energy efficiency. They provide the basis for simple solutions and represent a real alternative to non-dimmable applications.

### Series BASIC

#### T5 linear lamps

PCA T5 BASIC Ip xtec II, 14 – 80 W	Page 99			
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#### T8 linear lamps

PCA T8 BASIC Ip xtec II, 18 – 58 W	Page 101			
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#### Compact lamps and T5c circular fluorescent lamp

PCA TC BASIC xtec II, 11 – 57 W	Page 103			
PCA TCL BASIC c xtec II, 18 – 24 W	Page 103			
PCA T5c BASIC xtec II, 22 – 55 W	Page 103			
PCA TC-DD BASIC c xtec II, 28 W	Page 103			

T5	T8	CFL
•		•
	•	
		•
		•
		•



		Suitable for lamp type		
		T5	T8	CFL
<b>Series EXCITE *</b>				
<b>T5 linear lamps</b>				
PCA T5 EXCITE Ip xitec, 3x14/24 W and 4x14/24 W	Page 105	•		
<b>T8 linear lamps</b>				
PCA T8 EXCITE Ip xitec, 3x18 W and 4x18 W	Page 106		•	

### Accessories for xitec II ballasts

#### SMART sensors

SMART Sensor 5D 19f	Page 411
SMART Sensor 5DP 19f	Page 414
SMART Sensor 5DPI 19f	Page 416
SMART Sensor 10DPI 19f	Page 419

#### SMART plugs

SMART Plug cF	Page 107
SMART Plug Gr	Page 108
SMART Plug Ma	Page 109

**Wiring diagrams and installation examples** Page 110

\* The PCA EXCITE series is based on the xitec I platform and exclusively comprises the three and four-lamp versions for T5 and T8 fluorescent lamps.

## Technology overview for x!tec

**x!tec processor technology developed by Tridonic offers added value and flexibility: individual customer requirements and the specific demands of the luminaire industry are perfectly covered by x!tec.**

### Demand-led innovation

Our x!tec chip raises the quality of dimming and ensures maximum reliability. The interplay between the various components is trouble-free, and energy efficiency is second to none. With the new generation of x!tec II chips the PCA product range, consisting of the EXCEL one4all, ECO and BASIC series, has been further improved.

### As varied as your requirements

Our aim is to meet your individual requirements. The ballasts offer the necessary performance, intelligence and flexibility for the relevant applications. And all without compromising on efficiency, quality or safety.

### x!tec II – setting new standards across all the series (EXCEL one4all, ECO and BASIC)

#### Efficiency:

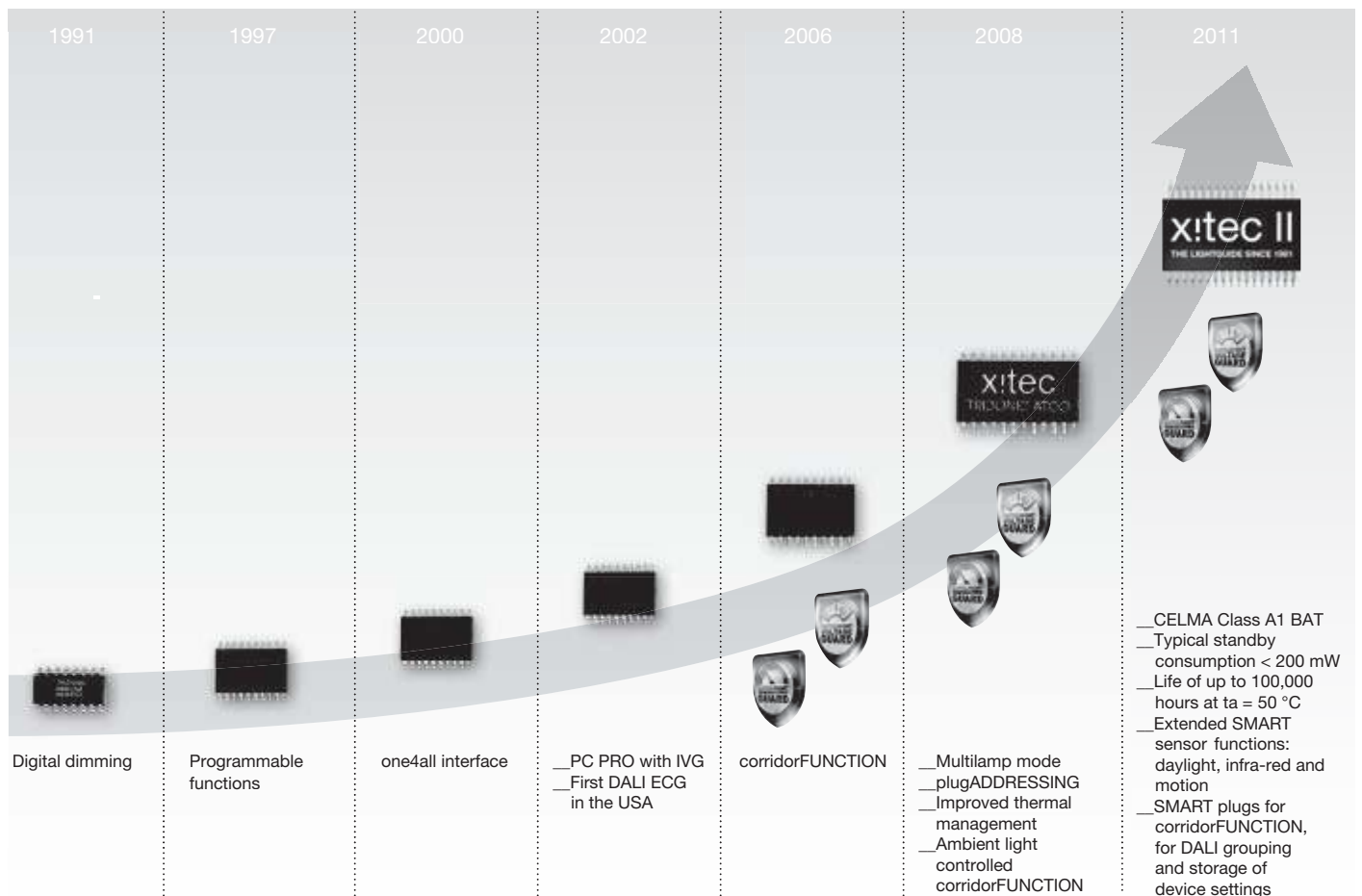
- CELMA Class A1 BAT
- Typical standby consumption < 200 mW

#### Quality:

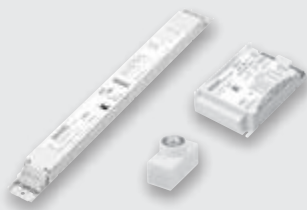
- Life of up to 100,000 hours at ta 50 °C
- 5-year guarantee

#### Safety:

- Intelligent Temperature Guard and Intelligent Voltage Guard
- Automatically triggered emergency lighting value in DC mode, 15 % default



## Product overview x:tec II

**PCA EXCEL one4all x:tec II \***

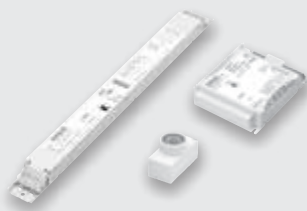
Lamp types: T5, T8, TC-L, TC-F, TC-S, TC-D, TC-DD, TC-T, T5c

**Maximum intelligence and flexibility**

Superior lighting solutions begin with a ballast with special qualities. We are setting new standards in technical innovation. PCA EXCEL one4all represents a new generation of dimmable ballasts that offer maximum comfort and maximum flexibility.

## At a glance:

- Individual and specific programming options (corridorFUNCTION, DC level, etc.)
- Multi-functional interface (DALI, DSI, switchDIM, corridorFUNCTION, SMART)
- Multi-lamp management for T5
- Possibility of intelligent stand-alone solutions (plug'n play via SMART sensors with daylight control, presence detection and infra-red control)
- switchDIM with memory function and adjustable dimming rates
- Extended DALI commands
- Intelligent Temperature Guard and Intelligent Voltage Guard
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- Dimming range 1 – 100 % (3 – 100 % for compact devices)

**PCA ECO x:tec II \***

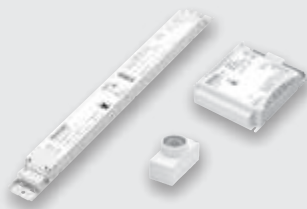
Lamp types: T5, T8, TC-L, TC-F, TC-S, TC-D, TC-DD, TC-T, T5c

**Maximum performance**

The dimmable ballasts in the PCA ECO series meet all the requirements for all the usual lighting systems. They combine maximum performance with ecological and economic benefits.

## At a glance:

- Multi-functional interface (DALI, DSI, switchDIM, corridorFUNCTION, SMART)
- Multi-lamp management for T5
- Daylight control via SMART sensor
- switchDIM with memory function and adjustable dimming rates
- Intelligent Temperature Guard and Intelligent Voltage Guard
- Automatically triggered emergency lighting value in DC mode, 15 %
- Dimming range 1 – 100 % (3 – 100 % for compact devices)

**PCA BASIC x:tec II**

Lamp types: T5, T8, TC-L, TC-F, TC-S, TC-D, TC-DD, TC-T, T5c

**Simply efficient**

The functionality of the PCA BASIC series has been designed to save energy. It provides the basis for simple solutions and represents a real alternative to non-dimmable applications. Ballasts in the BASIC series have been developed for simple dimming applications and offer impressive quality and safety.







## At a glance:

- DSI
- corridorFUNCTION
- switchDIM with memory function
- Daylight control via SMART sensor
- Intelligent Temperature Guard and Intelligent Voltage Guard
- Automatically triggered emergency lighting value in DC mode, 15 %
- Dimming range 10 – 100 %

\* Some devices in the PCA product range are still based on the predecessor platform x:tec I and therefore differ in their functionality. For details see the data sheet.

Product / function matrix x!tec II \*



Benefits	Product characteristics	PCA EXCEL one4all x!tec II	PCA ECO x!tec II	PCA BASIC x!tec II
High efficiency	Typical standby consumption < 200 mW	•	•	•
	CELMA Energy Class A1 BAT (maximum value as per CELMA classification)	•	•	•
	Optimum filament heating in any dimmer setting	•	•	•
	Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency	•	•	•
High quality	Life of up to 100,000 hours (at ta = 50 °C)	•	•	•
	5-year guarantee	•	•	•
	Protective hot restrike (0.2 s in emergency lighting mode / 0.5 s in normal mode)	•	•	•
	100 % final testing and safety testing in the factory	•	•	•
	Dimming range 1 – 100 % (compact 3 – 100 %) **	•	•	
	Dimming range 10 – 100 %			•
Excellent safety	Automatically triggered emergency lighting value in DC mode, 15 % default	•	•	•
	Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 % **	•		
	Intelligent Temperature Guard (thermal protection)	•	•	•
	Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)	•	•	•
	Automatic cut-off in the event of lamp faults	•	•	•
Approval marks	ENEC 	•	•	•
	CE 	•	•	•
	VDE-EMC 	•	•	•
	RCM 	•	•	•
	CCC 	•	•	•
	GOST 	•	•	•
Standards	EN 55015	•	•	•
	acc. to EN 50172 for emergency light installations	•	•	•
	EN 60929	•	•	•
	EN 61000-3-2	•	•	•
	EN 61347-2-3	•	•	•
	EN 61547	•	•	•





\* Some devices in the PCA product range are still based on the predecessor platform x!tec I and therefore differ in their functionality.

\*\* 3x14/24 5 – 100 %, for compact devices 3 – 100 %



Benefits	Product characteristics	PCA EXCEL one4all x!tec II	PCA ECO x!tec II	PCA BASIC x!tec II
<b>High flexibility</b>	Automatic restrike on relamping	•	•	•
	Multi-functional interface	•	•	
	Multi-lamp management for T5	•	•	
	Customer-specific reserved memory area	•	•	
	Insulation piercing plug-in terminals (T5, T8, TCL long-run versions)	•	•	
	one4all interface (all the usual communication protocols combined in one device): DALI / DSI / switchDIM / corridorFUNCTION / SMART with daylight control, presence detection and infra-red control	•		
	SMART Plug cF for setting the corridorFUNCTION profiles	•	•	•
	SMART Plug Gr for manual grouping of the devices	•		
	SMART Plug Ma for securing the device settings	•		
	Dimming rates between 100 ms and 90 s (min. – max.)	•		
	Dimming possible in DC mode	•		
<b>High functionality</b>	DSI control	•	•	•
	DALI control	•	•	
	DALI memory	•	•	
	Extended DALI commands	•		
	switchDIM with memory function	•	•	•
	switchDIM with memory function can be deactivated (enhanced power on level)	•		
	switchDIM with selectable dimming rates	•	•	
	Integrated SMART interface for daylight control	•	•	•
	Integrated SMART interface for daylight control, presence detection and infra-red control	•		
	corridorFUNCTION with daylight control	•	•	•
	corridorFUNCTION with 3 preprogrammed profiles (via plug)	•	•	•
	corridorFUNCTION (individually programmable)	•		
	corridorFUNCTION can be executed directly via SMART sensor	•		








Lamp matrix PCA EXCEL one4all x!tec I + II

Series			PCA T5 EXCEL one4all											PCA T8 EXCEL one4all							
			x!tec version																		
Article number			22185103	22185104	22176209	22176210	22185110	22185111	22185108	22185109	22185105	22185106	22185107	22185239	22185242	22185247	22185250	28000034	28000038	28000036	28000040
Type			PCA 1x14/24 T5 EXCEL one4all lp	PCA 2x14/24 T5 EXCEL one4all lp	PCA 3x14/24 T5 EXCEL one4all lp	PCA 4x14/24 T5 EXCEL one4all lp	PCA 1x21/39 T5 EXCEL one4all lp	PCA 2x21/39 T5 EXCEL one4all lp	PCA 1x28/54 T5 EXCEL one4all lp	PCA 2x28/54 T5 EXCEL one4all lp	PCA 1x35/49/80 T5 EXCEL one4all lp	PCA 2x35/49 T5 EXCEL one4all lp	PCA 2x80 T5 EXCEL one4all lp	PCA 1x18 T8 EXCEL one4all lp	PCA 2x18 T8 EXCEL one4all lp	PCA 3x18 T8 EXCEL one4all lp	PCA 4x18 T8 EXCEL one4all lp	PCA 1x36 T8 EXCEL one4all lp	PCA 2x36 T8 EXCEL one4all lp	PCA 1x58 T8 EXCEL one4all lp	PCA 2x58 T8 EXCEL one4all lp
Page			78	78	80	80	78	78	78	78	78	78	78	82	82	86	86	82	82	82	82
Lamp	W / mm	Cap																			
T5 ECO 	13 / 549	G5	x	x																	
T5	14 / 549	G5	•	•	•	•															
T5 ECO	19 / 849	G5					x	x													
T5	21 / 849	G5					•	•													
T5 ECO	20 / 549	G5	x	x																	
T5	24 / 549	G5	•	•	•	•															
T5 ECO/ES	25 / 1,149	G5							x	x											
T5	28 / 1,149	G5							•	•											
T5 ECO/ES	32 / 1,449	G5									x	x									
T5 ECO	34 / 849	G5					x	x													
T5	35 / 1,449	G5									•	•									
T5	39 / 849	G5					•	•													
T5 ECO/ES	45 / 1,449	G5									x	x									
T5	49 / 1,449	G5									•	•									
T5 ECO/ES	50 / 1,149	G5							x	x											
T5	54 / 1,149	G5							•	•											
T5 ECO/ES	73 / 1,449	G5									x		x								
T5	80 / 1,449	G5									•		•								
T8 	18 / 590	G13												•	•	•	•				
T8	36 / 1,200	G13														•	•				
T8	58 / 1,500	G13																•	•		
TC-L 	18	2G11		•																	
TC-L 	24	2G11		•																	
TC-SEL / TC-L	36	2G11					•	•													
TC-SEL / TC-L	40	2G11					•	•													
TC-SEL / TC-L	55	2G11									•		•								
TC-SEL / TC-L	80	2G11									•		•								

• ENEC x Approval without ENEC








b Limited approvals – the latest lamp matrix incl. further approvals for various lamp types (without ENEC and VDE) can be downloaded from internet at [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"



Series			PCA TC EXCEL one4all											
			xttec version											
			Article number											
			Type											
Page														
Lamp			W / mm	Cap	PCA 1x11/13 TC EXCEL one4all	PCA 2x11/13 TC EXCEL one4all	PCA 1x18/24 TCL EXCEL one4all c	PCA 2x18/24 TCL EXCEL one4all c	PCA 1x18 TC EXCEL one4all	PCA 2x18 TC EXCEL one4all	PCA 1x26-57 TC EXCEL one4all	PCA 2x26/32/42 TC EXCEL one4all	PCA 1x28 TC-DD EXCEL one4all c	PCA 1x55 T5c EXCEL one4all
					87	87	87	87	87	87	87	87	87	87
TC-SEL / TC-L		11	2G7	•	•									
TC-L		18	2G11			•	•							
TC-L		24	2G11			•	•							
TC-SEL / TC-L		40	2G11							•				
TC-DEL		13	G24q-1	•	•									
TC-DEL		18	G24q-2					•	•					
TC-DEL		26	G24q-3							•	•			
TC-TEL HE		11	GR14q-1	•	•									
TC-TEL		13	GX24q-1	•	•									
TC-TEL HE		14	GR14q-1	•	•									
TC-TEL HE		17	GR14q-1	•	•									
TC-TEL		18	GX24q-2					•	•					
TC-TEL		26	GX24q-3							•	•			
TC-TEL		32	GX24q-3							•	•			
TC-TEL		42	GX24q-4							•	•			
TC-TEL		57	GX24q-5							b				
TC-F		18	2G10			•	•							
TC-F		24	2G10			•	•							
T5 circline		22 / Ø 230	2GX13			•								
		40 / Ø 305	2GX13							•				
		55 / Ø 305	2GX13											•
TC-DD		10	GR10q	b										
		16	GR10q	b										
		28	GR10q										•	
		38	GR10q											




- ENEC
- x Approval without ENEC
- b Limited approvals – the latest lamp matrix incl. further approvals for various lamp types (without ENEC and VDE) can be downloaded from internet at [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"



Series			PCA TC ECO											
			xttec version											
			Article number											
			Type											
Page														
Lamp			W / mm	Cap	22185126	22185127	22185252	22185258	22185122	22185123	22185120	22185121	22185255	22185124
TC-SEL / TC-L		11	2G7	•	•									
TC-L		18	2G11			•	•							
TC-L		24	2G11			•	•							
TC-SEL / TC-L		40	2G11								•			
TC-DEL		13	G24q-1	•	•									
TC-DEL		18	G24q-2					•	•					
TC-DEL		26	G24q-3								•	•		
TC-TEL HE		11	GR14q-1	•	•									
TC-TEL		13	GX24q-1	•	•									
TC-TEL HE		14	GR14q-1	•	•									
TC-TEL HE		17	GR14q-1	•	•									
TC-TEL		18	GX24q-2					•	•					
TC-TEL		26	GX24q-3								•	•		
TC-TEL		32	GX24q-3								•	•		
TC-TEL		42	GX24q-4								•	•		
TC-TEL		57	GX24q-5								b			
TC-F		18	2G10			•	•							
TC-F		24	2G10			•	•							
T5 circline		22 / Ø 230	2GX13			•								
		40 / Ø 305	2GX13								•			
		55 / Ø 305	2GX13											•
TC-DD		10	GR10q	b										
		16	GR10q	b										
		28	GR10q									•		
		38	GR10q											








- ENEC
- x Approval without ENEC
- b Limited approvals – the latest lamp matrix incl. further approvals for various lamp types (without ENEC and VDE) can be downloaded from internet at [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

## Lamp matrix PCA BASIC x!tec II

Series			PCA T5 BASIC																	
x!tec version																				
Article number			22185076	22185077	22185090	22185091	22185078	22185079	22185086	22185087	22185080	22185081	22185092	22185093	22185082	22185083	22185088	22185089	22185084	22185085
Type			PCA 1x14 T5 BASIC lp	PCA 2x14 T5 BASIC lp	PCA 1x21 T5 BASIC lp	PCA 2x21 T5 BASIC lp	PCA 1x24 T5 BASIC lp	PCA 2x24 T5 BASIC lp	PCA 1x28 T5 BASIC lp	PCA 2x28 T5 BASIC lp	PCA 1x35 T5 BASIC lp	PCA 2x35 T5 BASIC lp	PCA 1x39 T5 BASIC lp	PCA 2x39 T5 BASIC lp	PCA 1x49 T5 BASIC lp	PCA 2x49 T5 BASIC lp	PCA 1x54 T5 BASIC lp	PCA 2x54 T5 BASIC lp	PCA 1x80 T5 BASIC lp	PCA 2x80 T5 BASIC lp
Page			99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Lamp	W / mm	Cap																		
T5 ECO 	13 / 549	G5	x	x																
T5	14 / 549	G5	•	•																
T5 ECO	19 / 849	G5			x	x														
T5	21 / 849	G5			•	•														
T5 ECO	20 / 549	G5					x	x												
T5	24 / 549	G5					•	•												
T5 ECO/ES	25 / 1,149	G5							x	x										
T5	28 / 1,149	G5							•	•										
T5 ECO/ES	32 / 1,449	G5									x	x								
T5 ECO	34 / 849	G5											x	x						
T5	35 / 1,449	G5									•	•								
T5	39 / 849	G5											•	•						
T5 ECO/ES	45 / 1,449	G5													x	x				
T5	49 / 1,449	G5													•	•				
T5 ECO/ES	50 / 1,149	G5															x	x		
T5	54 / 1,149	G5															•	•		
T5 ECO/ES	73 / 1,449	G5																	x	x
T5	80 / 1,449	G5																	•	•
TC-L 	18	2G11						•												
TC-L 	24	2G11						•												
TC-SEL / TC-L	36	2G11											•	•						
TC-SEL / TC-L	40	2G11											•	•						
TC-SEL / TC-L	55	2G11																	•	•
TC-SEL / TC-L	80	2G11																	•	•



• ENEC x Approval without ENEC

b Limited approvals – the latest lamp matrix incl. further approvals for various lamp types (without ENEC and VDE) can be downloaded from internet at [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

Series			PCA T8 BASIC						PCA TC BASIC											
			xtec version																	
			Article number																	
			Type																	
Page			101	101	101	101	101	101	103	103	103	103	103	103	103	103	103	103	103	103
Lamp	W / mm	Cap																		
T8 	18 / 590	G13	•	•																
	36 / 1,200	G13			•	•														
	58 / 1,500	G13					•	•												
TC-SEL / TC-L 	11	2G7							•	•										
	18	2G11								•	•									
	24	2G11								•	•									
	40	2G11												•						
TC-DEL 	13	G24q-1							•	•										
	18	G24q-2									•	•								
	26	G24q-3											•	•						
TC-TEL HE 	11	GR14q-1							•	•										
	13	GX24q-1							•	•										
	14	GR14q-1							•	•										
	17	GR14q-1							•	•										
	18	GX24q-2									•	•								
	26	GX24q-3											•	•						
	32	GX24q-3											•	•						
	42	GX24q-4											•	•						
	57	GX24q-5												b						
TC-F 	18	2G10								•	•									
	24	2G10								•	•									
T5 circline 	22 / Ø 230	2GX13								•										
	40 / Ø 305	2GX13												•						
	55 / Ø 305	2GX13																	•	
TC-DD 	10	GR10q							b											
	16	GR10q							b											
	28	GR10q																•		
	38	GR10q																		

• ENEC x Approval without ENEC b Limited approvals – the latest lamp matrix incl. further approvals for various lamp types (without ENEC and VDE) can be downloaded from internet at [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

## Lamp matrix PCA EXCITE xitec I

			Series		PCA T5 EXCITE		PCA T8 EXCITE	
			xitec version					
			Article number		22176710	22176711	22185246	22185249
			Type		PCA 3x14/24 T5 EXCITE Ip	PCA 4x14/24 T5 EXCITE Ip	PCA 3x18 T8 EXCITE Ip	PCA 4x18 T8 EXCITE Ip
			Page		105	105	106	106
Lamp	W / mm	Cap						
T5 	14 / 549	G5	•	•				
T5	24 / 549	G5	•	•				
T8 	18 / 590	G13			•	•		

- ENEC x Approval without ENEC
- b Limited approvals – the latest lamp matrix incl. further approvals for various lamp types (without ENEC and VDE) can be downloaded from internet at [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

## Digital dimmable ballasts for fluorescent lamps

Tridonic offer digital dimmable products that are ideal whatever the requirements. Our new xitec II PCA product range comprises three series: EXCEL one4all, ECO and BASIC.

- **PCA EXCEL one4all –**

- **maximum intelligence and flexibility**

- The ballasts in the PCA EXCEL one4all series combine a large number of technical innovations. Equipped with a multi-functional interface and extensive storage options, the products support and recognise all current digital communication standards. Different settings can be programmed depending on the requirements. PCA EXCEL one4all ballasts also automatically detect T5 light sources of the same length and operate them with the correct lamp parameters. The integrated SMART interface offers a wide range of intuitive plug'n play options.

- **PCA ECO – maximum performance**

- The PCA ECO series offers high quality and excellent economy and covers a wide range of applications. With the digital DALI and DSI standards and the integrated switchDIM and corridorFUNCTION functionality, the PCA ECO series is suitable for a wide range of local and central applications. PCA ECO ballasts can be combined with daylight control via the SMART interface. A large number of different lamp types are supported, which offer even more benefits in the case of T5 versions thanks to multi-lamp management.

- **PCA BASIC – simply efficient**

- These reliable ballasts with predefined dimming functions and values use tried and trusted DSI and switchDIM technology for simple but effective plug'n play solutions. PCA BASIC ballasts can be combined with daylight control via the SMART interface. This series also supports the corridorFUNCTION in its simplest form.

### **Dimming saves energy**

Dimmable luminaires reduce energy consumption by their very nature. Every lumen in excess of what is needed increases CO<sub>2</sub> emissions unnecessarily. The greatest potential energy savings with lighting systems come from automatically adjusting the dimming level according to the amount of freely available daylight. Tridonic offers a wide range of technical options. These include the direct integration of daylight sensors and motion sensors, to respond directly to the presence or absence of people and the available ambient light. A long series of intelligent functions enables energy to be saved continually and effortlessly. These functions include optimised lamp operation, low power consumption on standby and automation for corridors, storage rooms and car parks.

### **High-quality dimming with a high level of comfort**

Artificial light must simulate nature as closely as possible to make people feel comfortable. Therefore dimmable luminaires are needed to provide exactly the amount of light required at the time. By changing the amount of light it is possible to create new looks – with only modest technical outlay, as dimmable ballasts from Tridonic prove. New lighting systems can be created thanks to high-quality plug'n play solutions via the SMART interface and the versatile programmability of the EXCEL one4all series. The high demands that Tridonic makes on quality means that its products have long lives and guarantee stable operation.

### **Multi-functional for maximum effect and minimum cost**

To keep installation costs as low as possible and to ensure intuitive operation all Tridonic ballasts are equipped with an interface that provides multiple control options. The internationally acclaimed control versions (DALI, DSI, switchDIM and corridorFUNCTION) offer a wide range of dimming options. A key aspect of Tridonic ballasts is that each of the control versions is wired via the same connections. The device automatically detects the control version and automatically switches to the appropriate mode.

The **DSI standard** provides for quick, simple and secure installation and offers almost all the benefits of digital communication. The **DALI protocol** was developed to meet even greater demands. With DALI even complex lighting solutions can be handled with a high degree of flexibility. For more information please refer to the section on luxCONTROL lighting control systems.

In addition to the digital standards, all the dimmable ballasts from Tridonic support simpler methods of control such as **switchDIM** (control via conventional switches) and **corridorFUNCTION** (control via conventional motion sensors).

Four different sensor types can be operated with dimmable ballasts from Tridonic, depending on the type of device. You can choose presence sensors, daylight sensors or sensors with an infra-red interface. The multi-functional interface gives you greater flexibility and system efficiency. In turn, this gives you new possibilities; for example you can combine central communication standards (DALI, DSI) with local SMART sensors.

### **switchDIM – simply reliable**

With switchDIM it is possible to create lighting systems that can be easily switched and dimmed at low cost. The key is simple but clever. It involves using standard mains voltage switches for lighting control. The different switching and dimming functions are performed depending on the operating status at the time and how long the switch is pressed. A short press on the switch switches the connected ballasts on or off; holding down the switch will fade the connected ballasts up or down. In a direct comparison with other control methods, switchDIM not only has a distinct cost advantage, it offers better functionality and simple installation.

### **corridorFUNCTION – simply brilliant**

Dimmable ballasts with corridorFUNCTION are a very simple and highly efficient way of reducing energy consumption. Even the simplest solutions with a standard motion sensor have a great effect. Ballasts of the xitec II generation offer maximum potential savings thanks to the combination with SMART daylight sensor. The application is activated automatically as soon as the mains signal at the digital interface of the ballast with integrated corridorFUNCTION is applied for longer than five minutes. Wherever light has to be provided 24 hours a day for statutory reasons, the corridorFUNCTION helps provide the right light, combined with energy-efficient and cost-effective operation. This economical form of 24-hour lighting is ideal for pedestrian underpasses, underground train stations, ATM booths, telephone kiosks, hotels, public buildings and hospitals.



### SMART interface

Thanks to the digital SMART interface it is possible to connect daylight, presence and remote control sensors easily and directly to the ballast. In this way we can guarantee maximum energy savings and maximum comfort. The SMART plugs simplify maintenance, grouping and settings for the corridorFUNCTION thanks to simple plug'n play. For more information please refer to the section on luxCONTROL lighting control systems.

### SMART-Heating concept

Saving energy and prolonging the life of the lamp at the same time – PCA ballasts of the xitec II generation with the integrated SMART heating concept bring a luminaire one stage closer to these twin objectives. The key is the control circuit for heating the electrodes in fluorescent lamps. The lamp is heated only as required, and this heating is switch off when the lamp reaches 80 to 90 % of the fade value.

### Multi-lamp management for T5

A luminaire with a multi-lamp ballast can automatically detect lamps of the same length and operate them with the correct lamp parameters (e.g. FH 28 W / FQ 54 W – a mixed population is not permitted for two-lamp ballasts). Users gain flexibility. They can always choose the appropriate and therefore most efficient lamp and react promptly to any changes in circumstances with no additional costs involved. The multiple use of these ballasts also helps reduce production and storage costs for luminaire manufacturers. Fewer components make handling simpler and reduce storage volume.

### Intelligent Voltage Guard



Prevention is better than cure – and that is also true of ballasts. To help prevent damage due to overvoltage or undervoltage the mains voltage for all PCA ballasts is constantly monitored.

If the mains voltage is too low the relevant lamp circuit is switched-off. At voltages between 70 and 140 V the device switches-off and on again on a non-cyclic basis. In the event of overvoltage the protection system issues an alarm by causing the lamps to flash alternately so that the installer can immediately take action to remedy the overvoltage.

### Intelligent Temperature Guard



Constant temperature checks enhance the reliability of the ballasts. Intelligent Temperature Guard provides effective protection against thermal overloads by slowly reducing the output if a defined

ASIC temperature is exceeded. The reduction in overtemperature takes place in small stages every two minutes and is repeated successively every 10 minutes as soon as the temperature falls again.

### Functions for the emergency lighting mode



Dimmable luminaires consume less power – and that is also true in emergency lighting mode. Lower consumption in this mode has a positive effect on battery capacity and cable dimensions.

PCA ballasts can be operated on AC or DC voltage. This means there is no need for a separate emergency lighting system. With a starting time of 0.2 seconds in DC emergency lighting mode the digital dimmable ballasts are ideal for emergency lighting. The ballasts automatically detect DC voltage and jump to a pre-defined DC level which is at 15 %. The DC level can be individually adjusted for the PCA EXCEL one4all product group.

Other intelligent functions make compliance with statutory requirements much simpler. For example, it is possible to set the software so that after every function test the previous lighting level is automatically restored.

### Constant high quality

The consistently high quality and reliability of the ballasts are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture also ensures constant reproducible quality. All the ballasts are subjected to 100 % final testing and safety testing.

To achieve this zero-defect quality without wastage Tridonic combines the principles of Lean Management and Lean Production with the Six Sigma method. The entire process chain is being continually optimised. Specifically this means that massive savings can be made by reducing throughput time, fault costs, transport, stock levels, unnecessary movements, waiting times, overproduction, over-processing and set-up time. So the high quality and reliability of Tridonic products are matched by exemplary efficiency.

### A responsibility to people and nature

Tridonic demonstrates its responsibility to the environment with its “ecolution” initiative in which the company is committed to environmental management in accordance with ISO 14001. Another commitment relates to all Tridonic employees throughout the world. The company namely complies with the health and safety requirements of OHSAS 18001.

### **Standards and approval marks**

Electronic ballasts from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electro-magnetic compatibility (EMC).

### **Lamp matrix**

Which control gear for which lamp?

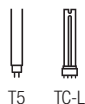
The latest lamp matrix is available on the internet: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

### **Technical information**

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Data sheets"

### **Personal enquiries**

A form for personal enquiries is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Contact", submenu "Contact form"



NEW

**PCA T5 EXCEL one4all Ip x!tec II, 14 – 80 W**  
T5 fluorescent lamps

**Product description**

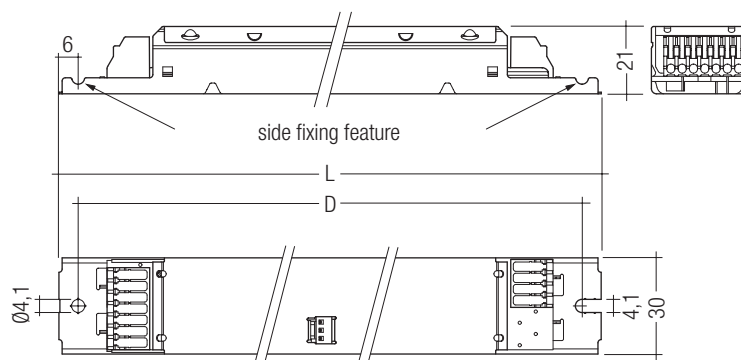
- Processor-controlled ballast with x!tec II inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>®</sup>
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- Multi-lamp management
- OEM-specific reserved memory areas
- Extended DALI commands
- 5-year guarantee

**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles + individually programmable)
- Integrated SMART interface for function with all SMART sensors and SMART plugs of the x!tec II range

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - Fade rates between 100 ms and 90 s (min. – max.)
  - corridorFUNCTION with ambient light control
  - Automatically triggered emergency lighting value in DC mode 15 %, can be set between 1 and 100 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
  - Dimming possible in DC mode
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x14/24 T5 EXCEL one4all Ip x!tec II	22185103	10 pieces	760 pieces	0.25 kg
PCA 1x21/39 T5 EXCEL one4all Ip x!tec II	22185110	10 pieces	760 pieces	0.25 kg
PCA 1x28/54 T5 EXCEL one4all Ip x!tec II	22185108	10 pieces	760 pieces	0.25 kg
PCA 1x35/49/80 T5 EXCEL one4all Ip x!tec II	22185105	10 pieces	760 pieces	0.25 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x14/24 T5 EXCEL one4all Ip x!tec II	22185104	10 pieces	760 pieces	0.25 kg
PCA 2x21/39 T5 EXCEL one4all Ip x!tec II	22185111	10 pieces	760 pieces	0.25 kg
PCA 2x28/54 T5 EXCEL one4all Ip x!tec II	22185109	10 pieces	640 pieces	0.35 kg
PCA 2x35/49 T5 EXCEL one4all Ip x!tec II	22185106	10 pieces	760 pieces	0.25 kg
PCA 2x80 T5 EXCEL one4all Ip x!tec II	22185107	10 pieces	640 pieces	0.35 kg



Product matrix, page 64

Standards, page 64

Wiring diagrams and installation examples, page 110

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>③</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>												
1 x 14 W	T5	PCA 1x14/24 T5 EXCEL one4all lp xrtec II	22185103	360 x 30 x 21 mm	350 mm	14 W	16.0 W	A1 BAT	0.08 A	0.95	80 °C	-25 ... 70 °C
1 x 24 W	T5	PCA 1x14/24 T5 EXCEL one4all lp xrtec II	22185103	360 x 30 x 21 mm	350 mm	23 W	25.5 W	A1 BAT	0.12 A	0.97	80 °C	-25 ... 70 °C
1 x 21 W	T5	PCA 1x21/39 T5 EXCEL one4all lp xrtec II	22185110	360 x 30 x 21 mm	350 mm	21 W	23.0 W	A1 BAT	0.11 A	0.95	80 °C	-25 ... 70 °C
1 x 36 W	TC-L	PCA 1x21/39 T5 EXCEL one4all lp xrtec II	22185110	360 x 30 x 21 mm	350 mm	32 W	35.5 W	A1 BAT	0.16 A	0.96	80 °C	-25 ... 65 °C
1 x 39 W	T5	PCA 1x21/39 T5 EXCEL one4all lp xrtec II	22185110	360 x 30 x 21 mm	350 mm	38 W	41.5 W	A1 BAT	0.19 A	0.97	80 °C	-25 ... 65 °C
1 x 40 W	TC-L	PCA 1x21/39 T5 EXCEL one4all lp xrtec II	22185110	360 x 30 x 21 mm	350 mm	40 W	43.0 W	A1 BAT	0.20 A	0.98	80 °C	-25 ... 65 °C
1 x 28 W	T5	PCA 1x28/54 T5 EXCEL one4all lp xrtec II	22185108	360 x 30 x 21 mm	350 mm	28 W	30.5 W	A1 BAT	0.14 A	0.95	80 °C	-25 ... 75 °C
1 x 54 W	T5	PCA 1x28/54 T5 EXCEL one4all lp xrtec II	22185108	360 x 30 x 21 mm	350 mm	54 W	58.0 W	A1 BAT	0.26 A	0.98	80 °C	-25 ... 70 °C
1 x 35 W	T5	PCA 1x35/49/80 T5 EXCEL one4all lp xrtec II	22185105	360 x 30 x 21 mm	350 mm	35 W	39.0 W	A1 BAT	0.18 A	0.95	85 °C	-25 ... 75 °C
1 x 49 W	T5	PCA 1x35/49/80 T5 EXCEL one4all lp xrtec II	22185105	360 x 30 x 21 mm	350 mm	49 W	53.0 W	A1 BAT	0.25 A	0.97	80 °C	-25 ... 70 °C
1 x 55 W	TC-L	PCA 1x35/49/80 T5 EXCEL one4all lp xrtec II	22185105	360 x 30 x 21 mm	350 mm	55 W	60.0 W	A1 BAT	0.28 A	0.97	80 °C	-25 ... 60 °C
1 x 80 W	T5	PCA 1x35/49/80 T5 EXCEL one4all lp xrtec II	22185105	360 x 30 x 21 mm	350 mm	80 W	85.5 W	A1 BAT	0.40 A	0.99	80 °C	-25 ... 60 °C
1 x 80 W	TC-L	PCA 1x35/49/80 T5 EXCEL one4all lp xrtec II	22185105	360 x 30 x 21 mm	350 mm	80 W	85.5 W	A1 BAT	0.36 A	0.98	80 °C	-25 ... 60 °C
<b>For luminaires with 2 lamps</b>												
2 x 14 W	T5	PCA 2x14/24 T5 EXCEL one4all lp xrtec II	22185104	360 x 30 x 21 mm	350 mm	28 W	30.5 W	A1 BAT	0.14 A	0.96	80 °C	-25 ... 70 °C
2 x 18 W	TC-L	PCA 2x14/24 T5 EXCEL one4all lp xrtec II	22185104	360 x 30 x 21 mm	350 mm	32 W	38.0 W	A1 BAT	0.15 A	0.96	80 °C	-25 ... 65 °C
2 x 24 W	T5	PCA 2x14/24 T5 EXCEL one4all lp xrtec II	22185104	360 x 30 x 21 mm	350 mm	45 W	49.5 W	A1 BAT	0.22 A	0.98	80 °C	-25 ... 65 °C
2 x 24 W	TC-L	PCA 2x14/24 T5 EXCEL one4all lp xrtec II	22185104	360 x 30 x 21 mm	350 mm	44 W	49.0 W	A1 BAT	0.21 A	0.98	80 °C	-25 ... 65 °C
2 x 21 W	T5	PCA 2x21/39 T5 EXCEL one4all lp xrtec II	22185111	360 x 30 x 21 mm	350 mm	41 W	45.5 W	A1 BAT	0.21 A	0.96	85 °C	-25 ... 70 °C
2 x 36 W	TC-L	PCA 2x21/39 T5 EXCEL one4all lp xrtec II	22185111	360 x 30 x 21 mm	350 mm	64 W	71.0 W	A1 BAT	0.31 A	0.98	85 °C	-25 ... 65 °C
2 x 39 W	T5	PCA 2x21/39 T5 EXCEL one4all lp xrtec II	22185111	360 x 30 x 21 mm	350 mm	76 W	82.0 W	A1 BAT	0.37 A	0.98	85 °C	-25 ... 65 °C
2 x 40 W	TC-L	PCA 2x21/39 T5 EXCEL one4all lp xrtec II	22185111	360 x 30 x 21 mm	350 mm	80 W	86.0 W	A1 BAT	0.40 A	0.99	85 °C	-25 ... 65 °C
2 x 28 W	T5	PCA 2x28/54 T5 EXCEL one4all lp xrtec II	22185109	425 x 30 x 21 mm	415 mm	56 W	60.5 W	A1 BAT	0.28 A	0.96	80 °C	-25 ... 70 °C
2 x 54 W	T5	PCA 2x28/54 T5 EXCEL one4all lp xrtec II	22185109	425 x 30 x 21 mm	415 mm	108 W	116.5 W	A1 BAT	0.51 A	0.99	85 °C	-25 ... 55 °C
2 x 35 W	T5	PCA 2x35/49 T5 EXCEL one4all lp xrtec II	22185106	360 x 30 x 21 mm	350 mm	70 W	74.5 W	A1 BAT	0.34 A	0.97	80 °C	-25 ... 65 °C
2 x 49 W	T5	PCA 2x35/49 T5 EXCEL one4all lp xrtec II	22185106	360 x 30 x 21 mm	350 mm	98 W	105.5 W	A1 BAT	0.49 A	0.98	85 °C	-25 ... 60 °C
2 x 55 W	TC-L	PCA 2x80 T5 EXCEL one4all lp xrtec II	22185107	425 x 30 x 21 mm	415 mm	110 W	117.0 W	A1 BAT	0.52 A	0.99	80 °C	-25 ... 55 °C
2 x 80 W	T5	PCA 2x80 T5 EXCEL one4all lp xrtec II	22185107	425 x 30 x 21 mm	415 mm	160 W	167.0 W	A1 BAT	0.74 A	0.99	80 °C	-25 ... 55 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



**PCA T5 EXCEL one4all Ip x!tec, 3x14/24 W and 4x14/24 W**  
T5 fluorescent lamps

**Product description**

- Processor-controlled ballast with x!tec inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>®</sup>
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- Multi-lamp management
- OEM-specific reserved memory areas
- Extended DALI commands
- 5-year guarantee

**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (individually programmable)

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
- Fade rates between 50 ms and 90 s (min. – max.)
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Automatic shutdown if the lamp is faulty
- Dimming possible in DC mode
- Backwards compatible

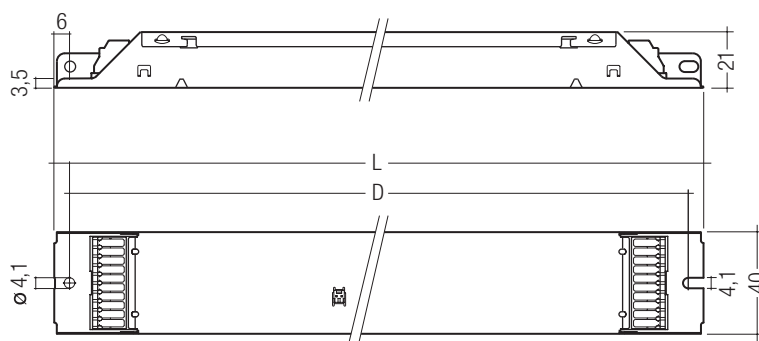
→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



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**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Lamp start possible from	5 % (3 lamps), 1 % (4 lamps)
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 3 lamps</b>				
PCA 3x14/24 T5 EXCEL one4all Ip x!tec	22176209	20 pieces	600 pieces	0.29 kg
<b>For luminaires with 4 lamps</b>				
PCA 4x14/24 T5 EXCEL one4all Ip x!tec	22176210	20 pieces	600 pieces	0.33 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>③</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 3 lamps</b>												
3 x 14 W	T5	PCA 3x14/24 T5 EXCEL one4all Ip x!tec	22176209	360 x 40 x 21 mm	350 mm	42 W	46.5 W	A1 BAT	0.21 A	0.97	75 °C	-25 ... 60 °C
3 x 24 W	T5	PCA 3x14/24 T5 EXCEL one4all Ip x!tec	22176209	360 x 40 x 21 mm	350 mm	72 W	73.0 W	A1 BAT	0.32 A	0.97	75 °C	-25 ... 55 °C
<b>For luminaires with 4 lamps</b>												
4 x 14 W	T5	PCA 4x14/24 T5 EXCEL one4all Ip x!tec	22176210	360 x 40 x 21 mm	350 mm	56 W	60.5 W	A1 BAT	0.27 A	0.97	75 °C	-25 ... 60 °C
4 x 24 W	T5	PCA 4x14/24 T5 EXCEL one4all Ip x!tec	22176210	360 x 40 x 21 mm	350 mm	96 W	97.5 W	A1 BAT	0.43 A	0.97	75 °C	-25 ... 50 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



NEW

**PCA T8 EXCEL one4all Ip x!tec II, 18 – 58 W**  
T8 fluorescent lamps

**Product description**

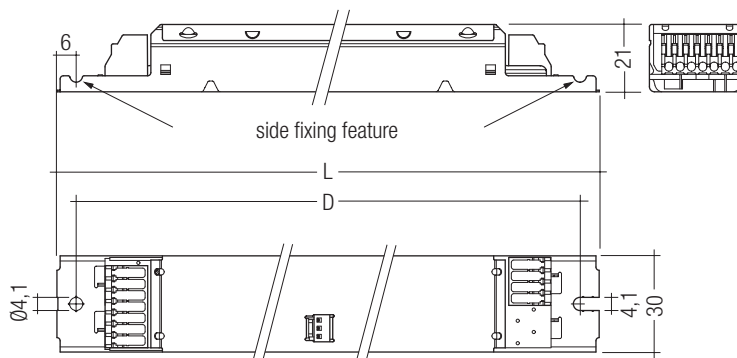
- Processor-controlled ballast with x!tec II inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>®</sup>
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- OEM-specific reserved memory areas
- Extended DALI commands
- 5-year guarantee

**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles + individually programmable)
- Integrated SMART interface for function with all SMART sensors and SMART plugs of the x!tec II range

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - Fade rates between 100 ms and 90 s (min. – max.)
  - corridorFUNCTION with ambient light control
  - Automatically triggered emergency lighting value in DC mode 15 %, can be set between 1 and 100 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
  - Dimming possible in DC mode
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x18 T8 EXCEL one4all Ip x!tec II	22185239	10 pieces	760 pieces	0.25 kg
PCA 1x36 T8 EXCEL one4all Ip x!tec II	28000034	10 pieces	760 pieces	0.25 kg
PCA 1x58 T8 EXCEL one4all Ip x!tec II	28000036	10 pieces	760 pieces	0.25 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x18 T8 EXCEL one4all Ip x!tec II	22185242	10 pieces	760 pieces	0.25 kg
PCA 2x36 T8 EXCEL one4all Ip x!tec II	28000038	10 pieces	760 pieces	0.25 kg
PCA 2x58 T8 EXCEL one4all Ip x!tec II	28000040	10 pieces	640 pieces	0.35 kg



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**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>												
1 x 18 W	T8	PCA 1x18 T8 EXCEL one4all lp xrtec II	22185239	360 x 30 x 21 mm	350 mm	16.5 W	18.5 W	A1 BAT	0.08 A	0.96	80 °C	-25 ... 70 °C
1 x 36 W	T8	PCA 1x36 T8 EXCEL one4all lp xrtec II	28000034	360 x 30 x 21 mm	350 mm				in preparation			
1 x 58 W	T8	PCA 1x58 T8 EXCEL one4all lp xrtec II	28000036	360 x 30 x 21 mm	350 mm				in preparation			
<b>For luminaires with 2 lamps</b>												
2 x 18 W	T8	PCA 2x18 T8 EXCEL one4all lp xrtec II	22185242	360 x 30 x 21 mm	350 mm	32.5 W	37.5 W	A1 BAT	0.16 A	0.98	75 °C	-25 ... 60 °C
2 x 36 W	T8	PCA 2x36 T8 EXCEL one4all lp xrtec II	28000038	360 x 30 x 21 mm	350 mm				in preparation			
2 x 58 W	T8	PCA 2x58 T8 EXCEL one4all lp xrtec II	28000040	425 x 30 x 21 mm	415 mm				in preparation			

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



**PCA T8 EXCEL one4all Ip x!tec, 36 – 58 W**  
T8 fluorescent lamps

**Product description**

- Processor-controlled ballast with x!tec inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>®</sup>
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- OEM-specific reserved memory areas
- Extended DALI commands
- 5-year guarantee

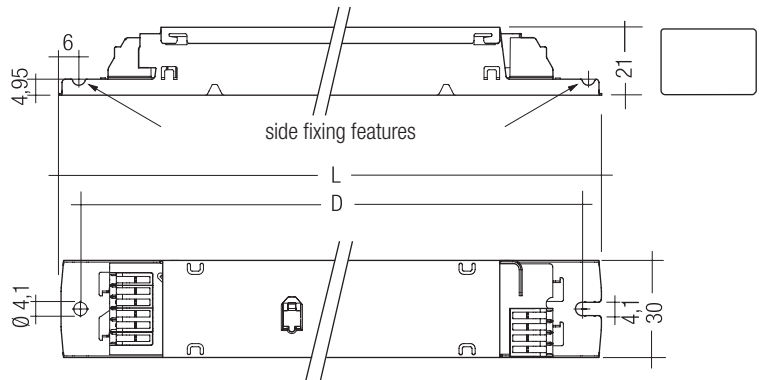
**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (individually programmable)

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
- Fade rates between 50 ms and 90 s (min. – max.)
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Automatic shutdown if the lamp is faulty
- Dimming possible in DC mode
- Backwards compatible

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x36 T8 EXCEL one4all Ip x!tec	22176239	10 pieces	760 pieces	0.25 kg
PCA 1x58 T8 EXCEL one4all Ip x!tec	22176235	10 pieces	760 pieces	0.27 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x36 T8 EXCEL one4all Ip x!tec	22176240	10 pieces	760 pieces	0.28 kg
PCA 2x58 T8 EXCEL one4all Ip x!tec	22176237	10 pieces	640 pieces	0.34 kg



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**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>												
1 x 36 W	T8	PCA 1x36 T8 EXCEL one4all lp xttec	22176239	360 x 30 x 21 mm	350 mm	32 W	35.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... 60 °C
1 x 58 W	T8	PCA 1x58 T8 EXCEL one4all lp xttec	22176235	360 x 30 x 21 mm	350 mm	50 W	53.5 W	A1 BAT	0.23 A	0.97	75 °C	-25 ... 60 °C
<b>For luminaires with 2 lamps</b>												
2 x 36 W	T8	PCA 2x36 T8 EXCEL one4all lp xttec	22176240	360 x 30 x 21 mm	350 mm	64 W	68.5 W	A1 BAT	0.30 A	0.98	80 °C	-25 ... 60 °C
2 x 58 W	T8	PCA 2x58 T8 EXCEL one4all lp xttec	22176237	425 x 30 x 21 mm	415 mm	100 W	108.0 W	A1 BAT	0.47 A	0.99	80 °C	-25 ... 50 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ 0 °C to ta max: unrestricted dimming. -25 °C to 0 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to 0 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



**PCA T8 EXCEL one4all Ip x!tec, 3x18 W and 4x18 W**  
T8 fluorescent lamps

**Product description**

- Processor-controlled ballast with x!tec inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>Ⓞ</sup>
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- OEM-specific reserved memory areas
- Extended DALI commands
- 5-year guarantee

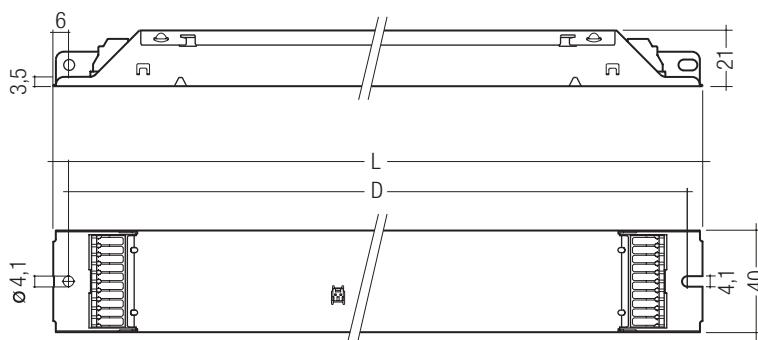
**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (individually programmable)

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
- Fade rates between 50 ms and 90 s (min. – max.)
- Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Automatic shutdown if the lamp is faulty
- Dimming possible in DC mode

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Lamp start possible from	5 % (3 lamps), 1 % (4 lamps)
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 3 lamps</b>				
PCA 3x18 T8 EXCEL one4all Ip x!tec	22185247	20 pieces	600 pieces	0.29 kg
<b>For luminaires with 4 lamps</b>				
PCA 4x18 T8 EXCEL one4all Ip x!tec	22185250	20 pieces	600 pieces	0.33 kg



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**Specific technical data**

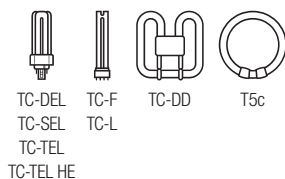
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>Ⓜ</sup>	Circuit power <sup>Ⓜ</sup>	EEI	Current at 50 Hz 230 V <sup>Ⓜ</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>Ⓜ</sup>
<b>For luminaires with 3 lamps</b>												
3 x 18 W	T8	PCA 3x18 T8 EXCEL one4all Ip x!tec	22185247	360 x 40 x 21 mm	350 mm	48.5 W	51 W	A1 BAT	0.23 A	0.97	75 °C	-25 ... 60 °C
<b>For luminaires with 4 lamps</b>												
4 x 18 W	T8	PCA 4x18 T8 EXCEL one4all Ip x!tec	22185250	360 x 40 x 21 mm	350 mm	65.0 W	69 W	A1 BAT	0.31 A	0.98	80 °C	-25 ... 60 °C

<sup>Ⓞ</sup> According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

<sup>Ⓜ</sup> Valid at 100 % dimming level.

<sup>Ⓝ</sup> +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



NEW

**PCA TC EXCEL one4all x!tec II, 18 – 57 W**  
Compact and T5c fluorescent lamps

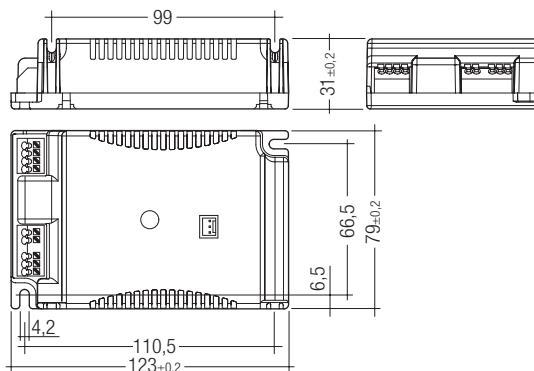
**Product description**

- Processor-controlled ballast with x!tec II inside
- Highest possible energy class CELMA EEI = A1 BAT®
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- OEM-specific reserved memory areas
- Extended DALI commands
- 5-year guarantee



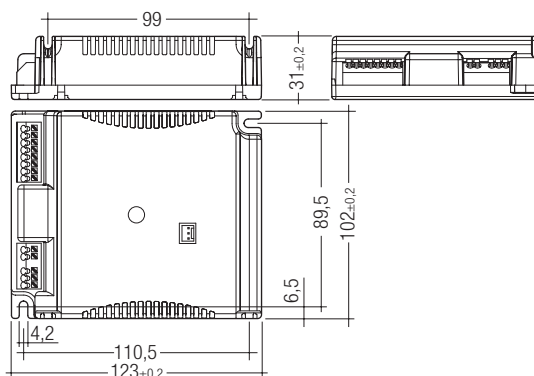
**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles + individually programmable)
- Integrated SMART interface for function with all SMART sensors and SMART plugs of the x!tec II range



**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - Fade rates between 100 ms and 90 s (min. – max.)
  - corridorFUNCTION with ambient light control
  - Automatically triggered emergency lighting value in DC mode 15 %, can be set between 3 and 100 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
  - Dimming possible in DC mode
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20



Product matrix, page 64

Standards, page 64

Wiring diagrams and installation examples, page 110

Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x11/13 TC EXCEL one4all xrtec II	22185134	10 pieces	500 pieces	0.18 kg
PCA 1x18 TC EXCEL one4all xrtec II	22185130	10 pieces	500 pieces	0.18 kg
PCA 1x18/24 TCL EXCEL one4all c xrtec II	22185251	10 pieces	500 pieces	0.18 kg
PCA 1x26-57 TC EXCEL one4all xrtec II	22185128	10 pieces	500 pieces	0.18 kg
PCA 1x28 TC-DD EXCEL one4all xrtec II	22185254	10 pieces	500 pieces	0.18 kg
PCA 1x55 T5c EXCEL one4all xrtec II	22185132	10 pieces	500 pieces	0.18 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x11/13 TC EXCEL one4all xrtec II	22185135	10 pieces	500 pieces	0.20 kg
PCA 2x18 TC EXCEL one4all xrtec II	22185131	10 pieces	500 pieces	0.20 kg
PCA 2x18/24 TCL EXCEL one4all c xrtec II	22185257	10 pieces	500 pieces	0.20 kg
PCA 2x26/32/42 TC EXCEL one4all xrtec II	22185129	10 pieces	500 pieces	0.20 kg

Specific technical data

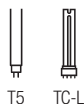
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power <sup>®</sup>	Circuit power <sup>®</sup>	EEL	Current at 50 Hz 230 V <sup>®</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>®</sup>
<b>For luminaires with 1 lamp</b>											
1 x 11 W	TC-SEL	PCA 1x11/13 TC EXCEL one4all xrtec II	22185134	123 x 79 x 31 mm	11.0 W	12.5 W	A1	0.06 A	0.96	75 °C	-25 ... 70 °C
1 x 11 W	TC-TEL HE	PCA 1x11/13 TC EXCEL one4all xrtec II	22185134	123 x 79 x 31 mm	11.5 W	13.0 W	A1	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 13 W	TC-DEL	PCA 1x11/13 TC EXCEL one4all xrtec II	22185134	123 x 79 x 31 mm	12.5 W	13.5 W	A1 BAT	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 13 W	TC-TEL	PCA 1x11/13 TC EXCEL one4all xrtec II	22185134	123 x 79 x 31 mm	12.5 W	14.0 W	A1 BAT	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 14 W	TC-TEL HE	PCA 1x11/13 TC EXCEL one4all xrtec II	22185134	123 x 79 x 31 mm	14.5 W	16.0 W	A1 BAT	0.08 A	0.97	75 °C	-25 ... 70 °C
1 x 17 W	TC-TEL HE	PCA 1x11/13 TC EXCEL one4all xrtec II	22185134	123 x 79 x 31 mm	17.5 W	19.0 W	A1 BAT	0.09 A	0.98	75 °C	-25 ... 70 °C
1 x 18 W	TC-DEL	PCA 1x18 TC EXCEL one4all xrtec II	22185130	123 x 79 x 31 mm	16.5 W	19.0 W	A1 BAT	0.09 A	0.95	80 °C	-25 ... 70 °C
1 x 18 W	TC-TEL	PCA 1x18 TC EXCEL one4all xrtec II	22185130	123 x 79 x 31 mm	16.5 W	18.5 W	A1 BAT	0.09 A	0.95	80 °C	-25 ... 70 °C
1 x 18 W	TC-F	PCA 1x18/24 TCL EXCEL one4all c xrtec II	22185251	123 x 79 x 31 mm	15.0 W	18.5 W	A1 BAT	0.08 A	0.96	75 °C	-25 ... 65 °C
1 x 18 W	TC-L	PCA 1x18/24 TCL EXCEL one4all c xrtec II	22185251	123 x 79 x 31 mm	16.0 W	18.5 W	A1 BAT	0.08 A	0.96	75 °C	-25 ... 65 °C
1 x 22 W	T5-R	PCA 1x18/24 TCL EXCEL one4all c xrtec II	22185251	123 x 79 x 31 mm	22.0 W	25.0 W	A1 BAT	0.11 A	0.98	75 °C	-25 ... 65 °C
1 x 24 W	TC-F	PCA 1x18/24 TCL EXCEL one4all c xrtec II	22185251	123 x 79 x 31 mm	20.0 W	24.5 W	A1 BAT	0.11 A	0.98	75 °C	-25 ... 65 °C
1 x 24 W	TC-L	PCA 1x18/24 TCL EXCEL one4all c xrtec II	22185251	123 x 79 x 31 mm	16.0 W	24.5 W	A1 BAT	0.12 A	0.98	75 °C	-25 ... 65 °C
1 x 26 W	TC-DEL	PCA 1x26-57 TC EXCEL one4all xrtec II	22185128	123 x 79 x 31 mm	24.0 W	26.5 W	A1 BAT	0.13 A	0.95	75 °C	-25 ... 65 °C
1 x 26 W	TC-DEL	PCA 1x26-57 TC EXCEL one4all xrtec II	22185128	123 x 79 x 31 mm	24.0 W	27.0 W	A1 BAT	0.13 A	0.95	75 °C	-25 ... 65 °C
1 x 32 W	TC-TEL	PCA 1x26-57 TC EXCEL one4all xrtec II	22185128	123 x 79 x 31 mm	32.0 W	35.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... 65 °C
1 x 40 W	T5-R	PCA 1x26-57 TC EXCEL one4all xrtec II	22185128	123 x 79 x 31 mm	40.0 W	43.0 W	A1 BAT	0.16 A	0.97	75 °C	-25 ... 65 °C
1 x 40 W	TC-L	PCA 1x26-57 TC EXCEL one4all xrtec II	22185128	123 x 79 x 31 mm	40.0 W	43.0 W	A1 BAT	0.18 A	0.97	75 °C	-25 ... 65 °C
1 x 42 W	TC-TEL	PCA 1x26-57 TC EXCEL one4all xrtec II	22185128	123 x 79 x 31 mm	42.0 W	44.0 W	A1 BAT	0.20 A	0.98	75 °C	-25 ... 65 °C
1 x 57 W	TC-TEL	PCA 1x26-57 TC EXCEL one4all xrtec II	22185128	123 x 79 x 31 mm	57.0 W	61.0 W	A1 BAT	0.24 A	0.98	75 °C	-25 ... 65 °C
1 x 28 W	TC-DD	PCA 1x28 TC-DD EXCEL one4all xrtec II	22185254	123 x 79 x 31 mm	26.5 W	27.5 W	A1 BAT	0.13 A	0.98	75 °C	-25 ... 65 °C
1 x 55 W	T5-R	PCA 1x55 T5c EXCEL one4all xrtec II	22185132	123 x 79 x 31 mm	55.0 W	59.0 W	A1 BAT	0.26 A	0.98	70 °C	-25 ... 55 °C
<b>For luminaires with 2 lamps</b>											
2 x 11 W	TC-SEL	PCA 2x11/13 TC EXCEL one4all xrtec II	22185135	123 x 102 x 31 mm	22.0 W	24.5 W	A1 BAT	0.11 A	0.96	70 °C	-25 ... 60 °C
2 x 11 W	TC-TEL HE	PCA 2x11/13 TC EXCEL one4all xrtec II	22185135	123 x 102 x 31 mm	23.5 W	26.0 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 13 W	TC-DEL	PCA 2x11/13 TC EXCEL one4all xrtec II	22185135	123 x 102 x 31 mm	25.0 W	27.0 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 13 W	TC-TEL	PCA 2x11/13 TC EXCEL one4all xrtec II	22185135	123 x 102 x 31 mm	25.0 W	27.5 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 14 W	TC-TEL HE	PCA 2x11/13 TC EXCEL one4all xrtec II	22185135	123 x 102 x 31 mm	29.0 W	31.0 W	A1 BAT	0.15 A	0.97	70 °C	-25 ... 60 °C
2 x 17 W	TC-TEL HE	PCA 2x11/13 TC EXCEL one4all xrtec II	22185135	123 x 102 x 31 mm	35.0 W	37.5 W	A1 BAT	0.17 A	0.98	70 °C	-25 ... 60 °C
2 x 18 W	TC-DEL	PCA 2x18 TC EXCEL one4all xrtec II	22185131	123 x 102 x 31 mm	33.0 W	36.0 W	A1 BAT	0.17 A	0.97	75 °C	-25 ... 70 °C
2 x 18 W	TC-TEL	PCA 2x18 TC EXCEL one4all xrtec II	22185131	123 x 102 x 31 mm	33.0 W	36.0 W	A1 BAT	0.17 A	0.97	75 °C	-25 ... 70 °C
2 x 18 W	TC-F	PCA 2x18/24 TCL EXCEL one4all c xrtec II	22185257	123 x 102 x 31 mm	15.0 W	37.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... 60 °C
2 x 18 W	TC-L	PCA 2x18/24 TCL EXCEL one4all c xrtec II	22185257	123 x 102 x 31 mm	16.0 W	37.0 W	A1 BAT	0.16 A	0.97	75 °C	-25 ... 60 °C
2 x 24 W	TC-F	PCA 2x18/24 TCL EXCEL one4all c xrtec II	22185257	123 x 102 x 31 mm	20.0 W	48.0 W	A1 BAT	0.21 A	0.98	75 °C	-25 ... 60 °C
2 x 24 W	TC-L	PCA 2x18/24 TCL EXCEL one4all c xrtec II	22185257	123 x 102 x 31 mm	22.0 W	48.0 W	A1 BAT	0.24 A	0.98	75 °C	-25 ... 60 °C
2 x 26 W	TC-DEL	PCA 2x26/32/42 TC EXCEL one4all xrtec II	22185129	123 x 102 x 31 mm	48.0 W	52.0 W	A1 BAT	0.24 A	0.96	75 °C	-25 ... 60 °C
2 x 26 W	TC-TEL	PCA 2x26/32/42 TC EXCEL one4all xrtec II	22185129	123 x 102 x 31 mm	48.0 W	52.0 W	A1 BAT	0.24 A	0.96	75 °C	-25 ... 60 °C
2 x 32 W	TC-TEL	PCA 2x26/32/42 TC EXCEL one4all xrtec II	22185129	123 x 102 x 31 mm	64.0 W	68.0 W	A1 BAT	0.29 A	0.97	75 °C	-25 ... 60 °C
2 x 42 W	TC-TEL	PCA 2x26/32/42 TC EXCEL one4all xrtec II	22185129	123 x 102 x 31 mm	84.0 W	88.5 W	A1 BAT	0.39 A	0.98	75 °C	-25 ... 60 °C

<sup>®</sup> According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

<sup>®</sup> Valid at 100 % dimming level.

<sup>®</sup> +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.

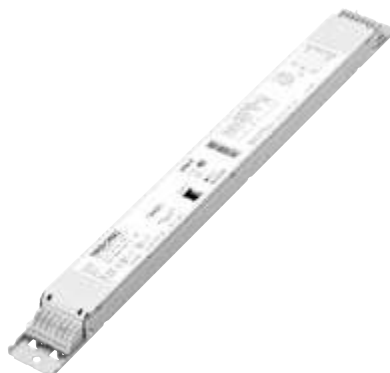


NEW

PCA T5 ECO Ip x!tec II, 14 – 80 W  
T5 fluorescent lamps

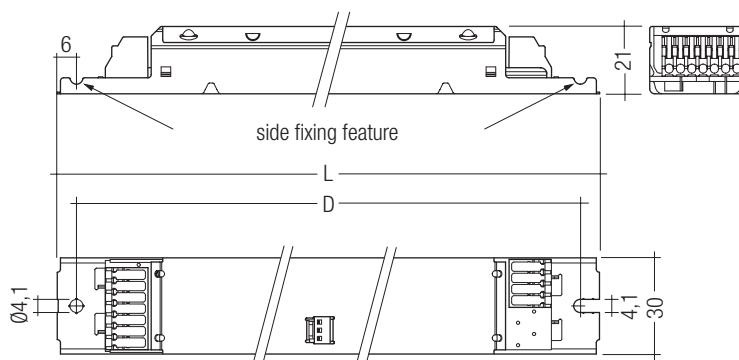
**Product description**

- Processor-controlled ballast with x!tec II inside
- Highest possible energy class CELMA EEI = A1 BAT®
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- Multi-lamp management
- OEM-specific reserved memory areas
- 5-year guarantee



**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART interface for function with SMART Sensor 5D 19f and corridorFUNCTION plugs



**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - corridorFUNCTION with ambient light control
  - Automatically triggered emergency lighting value in DC mode, 15 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x14/24 ECO Ip x!tec II	22185094	10 pieces	760 pieces	0.25 kg
PCA 1x21/39 T5 ECO Ip x!tec II	22185101	10 pieces	760 pieces	0.25 kg
PCA 1x28/54 T5 ECO Ip x!tec II	22185099	10 pieces	760 pieces	0.25 kg
PCA 1x35/49/80 T5 ECO Ip x!tec II	22185096	10 pieces	760 pieces	0.25 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x14/24 ECO Ip x!tec II	22185095	10 pieces	760 pieces	0.25 kg
PCA 2x21/39 T5 ECO Ip x!tec II	22185102	10 pieces	760 pieces	0.25 kg
PCA 2x28/54 T5 ECO Ip x!tec II	22185100	10 pieces	640 pieces	0.35 kg
PCA 2x35/49 T5 ECO Ip x!tec II	22185097	10 pieces	760 pieces	0.25 kg
PCA 2x80 T5 ECO Ip x!tec II	22185098	10 pieces	640 pieces	0.35 kg



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Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>												
1 x 14 W	T5	PCA 1x14/24 ECO lp xtecc II	22185094	360 x 30 x 21 mm	350 mm	14 W	16.0 W	A1 BAT	0.08 A	0.95	80 °C	-25 ... 70 °C
1 x 24 W	T5	PCA 1x14/24 ECO lp xtecc II	22185094	360 x 30 x 21 mm	350 mm	23 W	25.5 W	A1 BAT	0.12 A	0.97	80 °C	-25 ... 70 °C
1 x 21 W	T5	PCA 1x21/39 T5 ECO lp xtecc II	22185101	360 x 30 x 21 mm	350 mm	21 W	23.0 W	A1 BAT	0.11 A	0.95	80 °C	-25 ... 70 °C
1 x 36 W	TC-L	PCA 1x21/39 T5 ECO lp xtecc II	22185101	360 x 30 x 21 mm	350 mm	32 W	35.5 W	A1 BAT	0.16 A	0.96	80 °C	-25 ... 65 °C
1 x 39 W	T5	PCA 1x21/39 T5 ECO lp xtecc II	22185101	360 x 30 x 21 mm	350 mm	38 W	41.5 W	A1 BAT	0.19 A	0.97	80 °C	-25 ... 65 °C
1 x 40 W	TC-L	PCA 1x21/39 T5 ECO lp xtecc II	22185101	360 x 30 x 21 mm	350 mm	40 W	43.0 W	A1 BAT	0.20 A	0.98	80 °C	-25 ... 65 °C
1 x 28 W	T5	PCA 1x28/54 T5 ECO lp xtecc II	22185099	360 x 30 x 21 mm	350 mm	28 W	30.5 W	A1 BAT	0.14 A	0.95	80 °C	-25 ... 75 °C
1 x 54 W	T5	PCA 1x28/54 T5 ECO lp xtecc II	22185099	360 x 30 x 21 mm	350 mm	54 W	58.0 W	A1 BAT	0.26 A	0.98	80 °C	-25 ... 70 °C
1 x 35 W	T5	PCA 1x35/49/80 T5 ECO lp xtecc II	22185096	360 x 30 x 21 mm	350 mm	35 W	39.0 W	A1 BAT	0.18 A	0.95	85 °C	-25 ... 75 °C
1 x 49 W	T5	PCA 1x35/49/80 T5 ECO lp xtecc II	22185096	360 x 30 x 21 mm	350 mm	49 W	53.0 W	A1 BAT	0.25 A	0.97	80 °C	-25 ... 70 °C
1 x 55 W	TC-L	PCA 1x35/49/80 T5 ECO lp xtecc II	22185096	360 x 30 x 21 mm	350 mm	55 W	60.0 W	A1 BAT	0.28 A	0.97	80 °C	-25 ... 60 °C
1 x 80 W	T5	PCA 1x35/49/80 T5 ECO lp xtecc II	22185096	360 x 30 x 21 mm	350 mm	80 W	85.5 W	A1 BAT	0.40 A	0.99	80 °C	-25 ... 60 °C
1 x 80 W	TC-L	PCA 1x35/49/80 T5 ECO lp xtecc II	22185096	360 x 30 x 21 mm	350 mm	80 W	85.5 W	A1 BAT	0.36 A	0.98	80 °C	-25 ... 60 °C
<b>For luminaires with 2 lamps</b>												
2 x 14 W	T5	PCA 2x14/24 ECO lp xtecc II	22185095	360 x 30 x 21 mm	350 mm	28 W	30.5 W	A1 BAT	0.14 A	0.96	80 °C	-25 ... 70 °C
2 x 18 W	TC-L	PCA 2x14/24 ECO lp xtecc II	22185095	360 x 30 x 21 mm	350 mm	32 W	38.0 W	A1 BAT	0.15 A	0.96	80 °C	-25 ... 65 °C
2 x 24 W	T5	PCA 2x14/24 ECO lp xtecc II	22185095	360 x 30 x 21 mm	350 mm	45 W	49.5 W	A1 BAT	0.22 A	0.98	80 °C	-25 ... 65 °C
2 x 24 W	TC-L	PCA 2x14/24 ECO lp xtecc II	22185095	360 x 30 x 21 mm	350 mm	44 W	49.0 W	A1 BAT	0.21 A	0.98	80 °C	-25 ... 65 °C
2 x 21 W	T5	PCA 2x21/39 T5 ECO lp xtecc II	22185102	360 x 30 x 21 mm	350 mm	41 W	45.5 W	A1 BAT	0.21 A	0.96	85 °C	-25 ... 70 °C
2 x 36 W	TC-L	PCA 2x21/39 T5 ECO lp xtecc II	22185102	360 x 30 x 21 mm	350 mm	64 W	71.0 W	A1 BAT	0.31 A	0.98	85 °C	-25 ... 65 °C
2 x 39 W	T5	PCA 2x21/39 T5 ECO lp xtecc II	22185102	360 x 30 x 21 mm	350 mm	76 W	82.0 W	A1 BAT	0.37 A	0.98	85 °C	-25 ... 65 °C
2 x 40 W	TC-L	PCA 2x21/39 T5 ECO lp xtecc II	22185102	360 x 30 x 21 mm	350 mm	80 W	86.0 W	A1 BAT	0.40 A	0.99	85 °C	-25 ... 65 °C
2 x 28 W	T5	PCA 2x28/54 T5 ECO lp xtecc II	22185100	425 x 30 x 21 mm	415 mm	56 W	60.5 W	A1 BAT	0.28 A	0.96	80 °C	-25 ... 70 °C
2 x 54 W	T5	PCA 2x28/54 T5 ECO lp xtecc II	22185100	425 x 30 x 21 mm	415 mm	108 W	116.5 W	A1 BAT	0.51 A	0.99	85 °C	-25 ... 55 °C
2 x 35 W	T5	PCA 2x35/49 T5 ECO lp xtecc II	22185097	360 x 30 x 21 mm	350 mm	70 W	74.5 W	A1 BAT	0.34 A	0.97	80 °C	-25 ... 65 °C
2 x 49 W	T5	PCA 2x35/49 T5 ECO lp xtecc II	22185097	360 x 30 x 21 mm	350 mm	98 W	105.5 W	A1 BAT	0.49 A	0.98	85 °C	-25 ... 60 °C
2 x 55 W	TC-L	PCA 2x80 T5 ECO lp xtecc II	22185098	425 x 30 x 21 mm	415 mm	110 W	117.0 W	A1 BAT	0.52 A	0.99	80 °C	-25 ... 55 °C
2 x 80 W	T5	PCA 2x80 T5 ECO lp xtecc II	22185098	425 x 30 x 21 mm	415 mm	160 W	167.0 W	A1 BAT	0.74 A	0.99	80 °C	-25 ... 55 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.





PCA T5 ECO Ip x|tec, 3x14/24 W and 4x14/24 W  
T5 fluorescent lamps

**Product description**

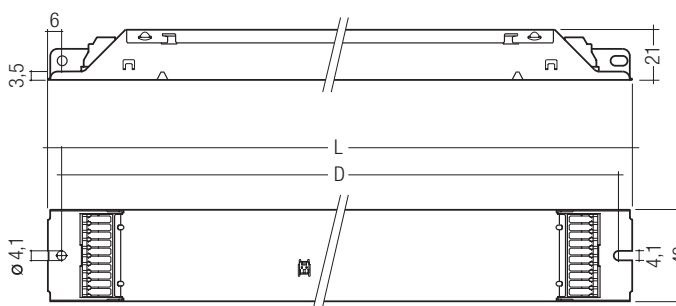
- Processor-controlled ballast with x|tec inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>®</sup>
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- 5-year guarantee

**Interfaces**

- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - Automatically triggered emergency lighting value in DC mode, 70 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
  - Backwards compatible
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Lamp start possible from	5 % (3 lamps), 1 % (4 lamps)
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 3 lamps</b>				
PCA 3x14/24 T5 ECO Ip x tec	22176211	20 pieces	600 pieces	0.29 kg
<b>For luminaires with 4 lamps</b>				
PCA 4x14/24 T5 ECO Ip x tec	22176212	20 pieces	600 pieces	0.33 kg



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**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEI	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 3 lamps</b>												
3 x 14 W	T5	PCA 3x14/24 T5 ECO Ip x tec	22176211	360 x 40 x 21 mm	350 mm	42 W	46.5 W	A1 BAT	0.21 A	0.97	75 °C	-25 ... 60 °C
3 x 24 W	T5	PCA 3x14/24 T5 ECO Ip x tec	22176211	360 x 40 x 21 mm	350 mm	72 W	73.0 W	A1 BAT	0.32 A	0.97	75 °C	-25 ... 55 °C
<b>For luminaires with 4 lamps</b>												
4 x 14 W	T5	PCA 4x14/24 T5 ECO Ip x tec	22176212	360 x 40 x 21 mm	350 mm	56 W	60.5 W	A1 BAT	0.27 A	0.97	75 °C	-25 ... 60 °C
4 x 24 W	T5	PCA 4x14/24 T5 ECO Ip x tec	22176212	360 x 40 x 21 mm	350 mm	96 W	97.5 W	A1 BAT	0.43 A	0.97	75 °C	-25 ... 50 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



NEW

**PCA T8 ECO Ip xitec II, 18 – 58 W**  
T8 fluorescent lamps

**Product description**

- Processor-controlled ballast with xitec II inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>®</sup>
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- Multi-lamp management
- OEM-specific reserved memory areas
- 5-year guarantee

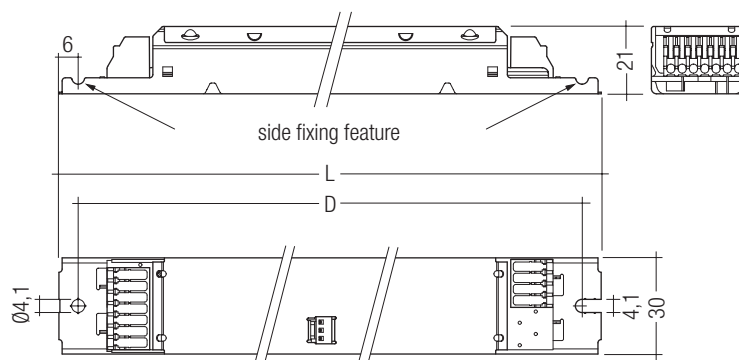
**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART interface for function with SMART Sensor 5D 19f and corridorFUNCTION plugs

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
- corridorFUNCTION with ambient light control
- Automatically triggered emergency lighting value in DC mode, 15 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Automatic shutdown if the lamp is faulty

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start $\geq$ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x18 T8 ECO Ip xitec II	22185240	10 pieces	760 pieces	0.25 kg
PCA 1x36 T8 ECO Ip xitec II	28000035	10 pieces	760 pieces	0.25 kg
PCA 1x58 T8 ECO Ip xitec II	28000037	10 pieces	760 pieces	0.25 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x18 T8 ECO Ip xitec II	22185243	10 pieces	760 pieces	0.25 kg
PCA 2x36 T8 ECO Ip xitec II	28000039	10 pieces	760 pieces	0.25 kg
PCA 2x58 T8 ECO Ip xitec II	28000041	10 pieces	640 pieces	0.35 kg



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**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>												
1 x 18 W	T8	PCA 1x18 T8 ECO Ip xitec II	22185240	360 x 30 x 21 mm	350 mm	16.5 W	18.5 W	A1 BAT	0.08 A	0.96	80 °C	-25 ... 70 °C
1 x 36 W	T8	PCA 1x36 T8 ECO Ip xitec II	28000035	360 x 30 x 21 mm	350 mm				in preparation			
1 x 58 W	T8	PCA 1x58 T8 ECO Ip xitec II	28000037	360 x 30 x 21 mm	350 mm				in preparation			
<b>For luminaires with 2 lamps</b>												
2 x 18 W	T8	PCA 2x18 T8 ECO Ip xitec II	22185243	360 x 30 x 21 mm	350 mm	32.5 W	37.5 W	A1 BAT	0.16 A	0.98	75 °C	-25 ... 60 °C
2 x 36 W	T8	PCA 2x36 T8 ECO Ip xitec II	28000039	360 x 30 x 21 mm	350 mm				in preparation			
2 x 58 W	T8	PCA 2x58 T8 ECO Ip xitec II	28000041	425 x 30 x 21 mm	415 mm				in preparation			

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



**PCA T8 ECO Ip xitec, 36 – 58 W**  
T8 fluorescent lamps

**Product description**

- Processor-controlled ballast with xitec inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>®</sup>
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- 5-year guarantee

**Interfaces**

- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION

**Functions**

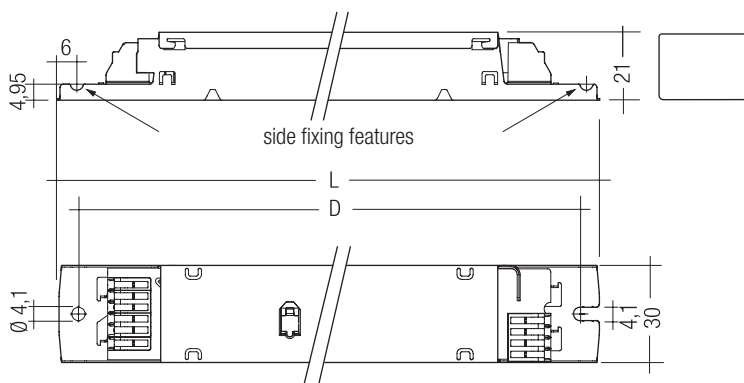
- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - Fade rates between 50 ms and 90 s (min. – max.)
  - Automatically triggered emergency lighting value in DC mode, 70 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
  - Backwards compatible
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Product matrix, page 64

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**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start $\geq$ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	1 – 100 %
Lamp start possible from	1 %
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x36 T8 ECO Ip xitec	22176354	10 pieces	760 pieces	0.25 kg
PCA 1x58 T8 ECO Ip xitec	22176356	10 pieces	760 pieces	0.27 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x36 T8 ECO Ip xitec	22176355	10 pieces	760 pieces	0.28 kg
PCA 2x58 T8 ECO Ip xitec	22176357	10 pieces	640 pieces	0.34 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>												
1 x 36 W	T8	PCA 1x36 T8 ECO Ip xitec	22176354	360 x 30 x 21 mm	350 mm	32 W	35.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... 60 °C
1 x 58 W	T8	PCA 1x58 T8 ECO Ip xitec	22176356	360 x 30 x 21 mm	350 mm	50 W	53.5 W	A1 BAT	0.23 A	0.97	75 °C	-25 ... 60 °C
<b>For luminaires with 2 lamps</b>												
2 x 36 W	T8	PCA 2x36 T8 ECO Ip xitec	22176355	360 x 30 x 21 mm	350 mm	64 W	68.5 W	A1 BAT	0.30 A	0.98	80 °C	-25 ... 60 °C
2 x 58 W	T8	PCA 2x58 T8 ECO Ip xitec	22176357	425 x 30 x 21 mm	415 mm	100 W	108.0 W	A1 BAT	0.47 A	0.99	80 °C	-25 ... 50 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ 0 °C to ta max: unrestricted dimming. -25 °C to 0 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to 0 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



**PCA T8 ECO Ip xitec, 3x18 W and 4x18 W**  
T8 fluorescent lamps

**Product description**

- Processor-controlled ballast with xitec inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>①</sup>
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- 5-year guarantee

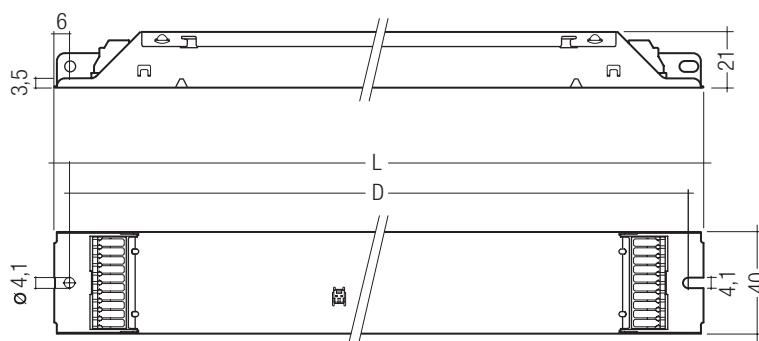
**Interfaces**

- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optimum filament heating in any dimmer setting
- Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
- Automatically triggered emergency lighting value in DC mode, 70 %
- For emergency lighting systems as per EN 50172
- Automatic start after replacement of defective lamps
- Automatic shutdown if the lamp is faulty

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Lamp start possible from	5 % (3 lamps), 1 % (4 lamps)
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 3 lamps</b>				
PCA 3x18 T8 ECO Ip xitec	22185245	20 pieces	600 pieces	0.29 kg
<b>For luminaires with 4 lamps</b>				
PCA 4x18 T8 ECO Ip xitec	22185248	20 pieces	600 pieces	0.33 kg

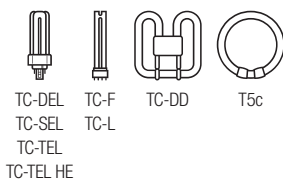
**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEI	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 3 lamps</b>												
3 x 18 W	T8	PCA 3x18 T8 ECO Ip xitec	22185245	360 x 40 x 21 mm	350 mm	48.5 W	51 W	A1 BAT	0.23 A	0.97	75 °C	-25 ... 60 °C
<b>For luminaires with 4 lamps</b>												
4 x 18 W	T8	PCA 4x18 T8 ECO Ip xitec	22185248	360 x 40 x 21 mm	350 mm	65.0 W	69 W	A1 BAT	0.31 A	0.98	80 °C	-25 ... 60 °C

<sup>①</sup> According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

<sup>②</sup> Valid at 100 % dimming level.

<sup>③</sup> +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.  
-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



NEW

**PCA TC ECO xitec II, 11 – 57 W**  
Compact and T5c fluorescent lamps

**Product description**

- Processor-controlled ballast with xitec II inside
- Highest possible energy class CELMA EEI = A1 BAT®
- Noise-free precise control via DALI or DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- OEM-specific reserved memory areas
- 5-year guarantee

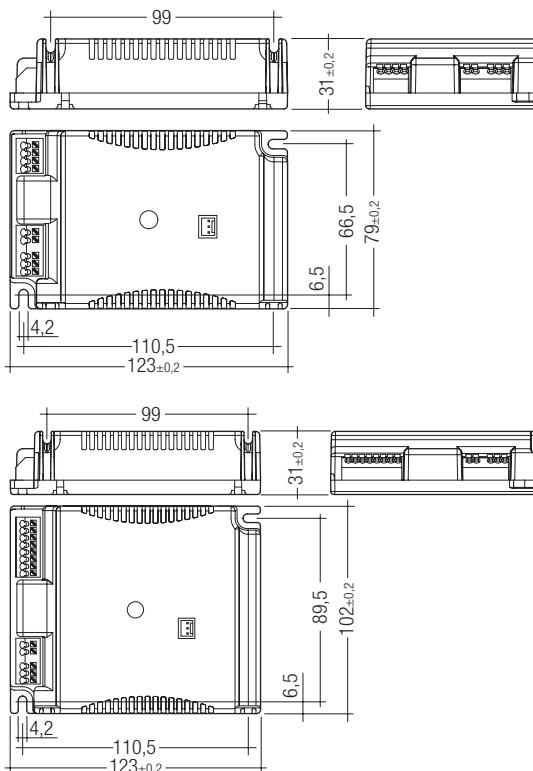


**Interfaces**

- DALI
- DSI
- switchDIM (with memory function + selectable dimming rate)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART interface for function with SMART Sensor 5D 19f and corridorFUNCTION plugs

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - corridorFUNCTION with ambient light control
  - Automatically triggered emergency lighting value in DC mode, 15 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	3 – 100 %
Lamp start possible from	3 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20



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Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x11/13 TC ECO xrttec II	22185126	10 pieces	500 pieces	0.18 kg
PCA 1x18 TC ECO xrttec II	22185122	10 pieces	500 pieces	0.18 kg
PCA 1x18/24 TCL ECO c xrttec II	22185252	10 pieces	500 pieces	0.18 kg
PCA 1x26-57 TC ECO xrttec II	22185120	10 pieces	500 pieces	0.18 kg
PCA 1x28 TC-DD ECO xrttec II	22185255	10 pieces	500 pieces	0.18 kg
PCA 1x55 T5c ECO xrttec II	22185124	10 pieces	500 pieces	0.18 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x11/13 TC ECO xrttec II	22185127	10 pieces	500 pieces	0.20 kg
PCA 2x18 TC ECO xrttec II	22185123	10 pieces	500 pieces	0.20 kg
PCA 2x18/24 TCL ECO c xrttec II	22185258	10 pieces	500 pieces	0.20 kg
PCA 2x26/32/42 TC ECO xrttec II	22185121	10 pieces	500 pieces	0.20 kg

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>											
1 x 11 W	TC-SEL	PCA 1x11/13 TC ECO xrttec II	22185126	123 x 79 x 31 mm	11.0 W	12.5 W	A1	0.06 A	0.96	75 °C	-25 ... 70 °C
1 x 11 W	TC-TEL HE	PCA 1x11/13 TC ECO xrttec II	22185126	123 x 79 x 31 mm	11.5 W	13.0 W	A1	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 13 W	TC-DEL	PCA 1x11/13 TC ECO xrttec II	22185126	123 x 79 x 31 mm	12.5 W	13.5 W	A1 BAT	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 13 W	TC-TEL	PCA 1x11/13 TC ECO xrttec II	22185126	123 x 79 x 31 mm	12.5 W	14.0 W	A1 BAT	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 14 W	TC-TEL HE	PCA 1x11/13 TC ECO xrttec II	22185126	123 x 79 x 31 mm	14.5 W	16.0 W	A1 BAT	0.08 A	0.97	75 °C	-25 ... 70 °C
1 x 17 W	TC-TEL HE	PCA 1x11/13 TC ECO xrttec II	22185126	123 x 79 x 31 mm	17.5 W	19.0 W	A1 BAT	0.09 A	0.98	75 °C	-25 ... 70 °C
1 x 18 W	TC-DEL	PCA 1x18 TC ECO xrttec II	22185122	123 x 79 x 31 mm	16.5 W	19.0 W	A1 BAT	0.09 A	0.95	80 °C	-25 ... 70 °C
1 x 18 W	TC-TEL	PCA 1x18 TC ECO xrttec II	22185122	123 x 79 x 31 mm	16.5 W	18.5 W	A1 BAT	0.09 A	0.95	80 °C	-25 ... 70 °C
1 x 18 W	TC-F	PCA 1x18/24 TCL ECO c xrttec II	22185252	123 x 79 x 31 mm	15.0 W	18.5 W	A1 BAT	0.08 A	0.96	75 °C	-25 ... 65 °C
1 x 18 W	TC-L	PCA 1x18/24 TCL ECO c xrttec II	22185252	123 x 79 x 31 mm	16.0 W	18.5 W	A1 BAT	0.08 A	0.96	75 °C	-25 ... 65 °C
1 x 22 W	T5-R	PCA 1x18/24 TCL ECO c xrttec II	22185252	123 x 79 x 31 mm	22.0 W	25.0 W	A1 BAT	0.11 A	0.98	75 °C	-25 ... 65 °C
1 x 24 W	TC-F	PCA 1x18/24 TCL ECO c xrttec II	22185252	123 x 79 x 31 mm	20.0 W	24.5 W	A1 BAT	0.11 A	0.98	75 °C	-25 ... 65 °C
1 x 24 W	TC-L	PCA 1x18/24 TCL ECO c xrttec II	22185252	123 x 79 x 31 mm	16.0 W	24.5 W	A1 BAT	0.12 A	0.98	75 °C	-25 ... 65 °C
1 x 26 W	TC-DEL	PCA 1x26-57 TC ECO xrttec II	22185120	123 x 79 x 31 mm	24.0 W	26.5 W	A1 BAT	0.13 A	0.95	75 °C	-25 ... 65 °C
1 x 26 W	TC-DEL	PCA 1x26-57 TC ECO xrttec II	22185120	123 x 79 x 31 mm	24.0 W	27.0 W	A1 BAT	0.13 A	0.95	75 °C	-25 ... 65 °C
1 x 32 W	TC-TEL	PCA 1x26-57 TC ECO xrttec II	22185120	123 x 79 x 31 mm	32.0 W	35.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... 65 °C
1 x 40 W	T5-R	PCA 1x26-57 TC ECO xrttec II	22185120	123 x 79 x 31 mm	40.0 W	43.0 W	A1 BAT	0.16 A	0.97	75 °C	-25 ... 65 °C
1 x 40 W	TC-L	PCA 1x26-57 TC ECO xrttec II	22185120	123 x 79 x 31 mm	40.0 W	43.0 W	A1 BAT	0.18 A	0.97	75 °C	-25 ... 65 °C
1 x 42 W	TC-TEL	PCA 1x26-57 TC ECO xrttec II	22185120	123 x 79 x 31 mm	42.0 W	44.0 W	A1 BAT	0.20 A	0.98	75 °C	-25 ... 65 °C
1 x 57 W	TC-TEL	PCA 1x26-57 TC ECO xrttec II	22185120	123 x 79 x 31 mm	57.0 W	61.0 W	A1 BAT	0.24 A	0.98	75 °C	-25 ... 65 °C
1 x 28 W	TC-DD	PCA 1x28 TC-DD ECO xrttec II	22185255	123 x 79 x 31 mm	26.5 W	27.5 W	A1 BAT	0.13 A	0.98	75 °C	-25 ... 65 °C
1 x 55 W	T5-R	PCA 1x55 T5c ECO xrttec II	22185124	123 x 79 x 31 mm	55.0 W	59.0 W	A1 BAT	0.26 A	0.98	70 °C	-25 ... 55 °C
<b>For luminaires with 2 lamps</b>											
2 x 11 W	TC-SEL	PCA 2x11/13 TC ECO xrttec II	22185127	123 x 102 x 31 mm	22.0 W	24.5 W	A1 BAT	0.11 A	0.96	70 °C	-25 ... 60 °C
2 x 11 W	TC-TEL HE	PCA 2x11/13 TC ECO xrttec II	22185127	123 x 102 x 31 mm	23.5 W	26.0 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 13 W	TC-DEL	PCA 2x11/13 TC ECO xrttec II	22185127	123 x 102 x 31 mm	25.0 W	27.0 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 13 W	TC-TEL	PCA 2x11/13 TC ECO xrttec II	22185127	123 x 102 x 31 mm	25.0 W	27.5 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 14 W	TC-TEL HE	PCA 2x11/13 TC ECO xrttec II	22185127	123 x 102 x 31 mm	29.0 W	31.0 W	A1 BAT	0.15 A	0.97	70 °C	-25 ... 60 °C
2 x 17 W	TC-TEL HE	PCA 2x11/13 TC ECO xrttec II	22185127	123 x 102 x 31 mm	35.0 W	37.5 W	A1 BAT	0.17 A	0.98	70 °C	-25 ... 60 °C
2 x 18 W	TC-DEL	PCA 2x18 TC ECO xrttec II	22185123	123 x 102 x 31 mm	33.0 W	36.0 W	A1 BAT	0.17 A	0.97	75 °C	-25 ... 70 °C
2 x 18 W	TC-TEL	PCA 2x18 TC ECO xrttec II	22185123	123 x 102 x 31 mm	33.0 W	36.0 W	A1 BAT	0.17 A	0.97	75 °C	-25 ... 70 °C
2 x 18 W	TC-F	PCA 2x18/24 TCL ECO c xrttec II	22185258	123 x 102 x 31 mm	15.0 W	37.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... 60 °C
2 x 18 W	TC-L	PCA 2x18/24 TCL ECO c xrttec II	22185258	123 x 102 x 31 mm	16.0 W	37.0 W	A1 BAT	0.16 A	0.97	75 °C	-25 ... 60 °C
2 x 24 W	TC-F	PCA 2x18/24 TCL ECO c xrttec II	22185258	123 x 102 x 31 mm	20.0 W	48.0 W	A1 BAT	0.21 A	0.98	75 °C	-25 ... 60 °C
2 x 24 W	TC-L	PCA 2x18/24 TCL ECO c xrttec II	22185258	123 x 102 x 31 mm	22.0 W	48.0 W	A1 BAT	0.22 A	0.98	75 °C	-25 ... 60 °C
2 x 26 W	TC-DEL	PCA 2x26/32/42 TC ECO xrttec II	22185121	123 x 102 x 31 mm	48.0 W	52.0 W	A1 BAT	0.24 A	0.96	75 °C	-25 ... 60 °C
2 x 26 W	TC-TEL	PCA 2x26/32/42 TC ECO xrttec II	22185121	123 x 102 x 31 mm	48.0 W	52.0 W	A1 BAT	0.24 A	0.96	75 °C	-25 ... 60 °C
2 x 32 W	TC-TEL	PCA 2x26/32/42 TC ECO xrttec II	22185121	123 x 102 x 31 mm	64.0 W	68.0 W	A1 BAT	0.29 A	0.97	75 °C	-25 ... 60 °C
2 x 42 W	TC-TEL	PCA 2x26/32/42 TC ECO xrttec II	22185121	123 x 102 x 31 mm	84.0 W	88.5 W	A1 BAT	0.39 A	0.98	75 °C	-25 ... 60 °C

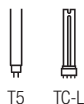
① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.





NEW

**PCA T5 BASIC Ip xitec II, 14 – 80 W**  
T5 fluorescent lamps

**Product description**

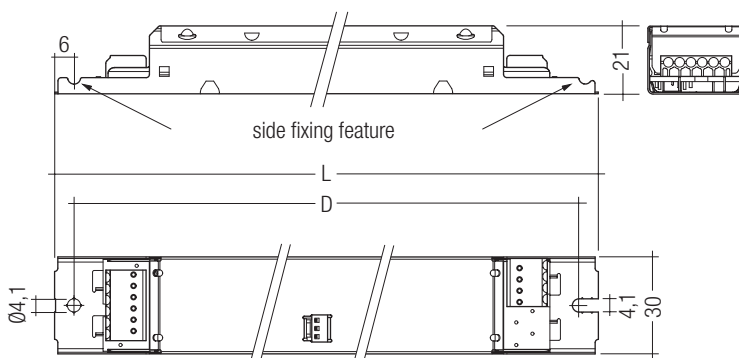
- Processor-controlled ballast with xitec II inside
- Highest possible energy class CELMA EEI = A1 BAT®
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- 5-year guarantee

**Interfaces**

- DSI
- switchDIM (with memory function)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART interface for function with SMART Sensor 5D 19f and corridorFUNCTION plugs

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - corridorFUNCTION with ambient light control
  - Automatically triggered emergency lighting value in DC mode, 15 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	10 – 100 %
Lamp start possible from	10 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x14 T5 BASIC Ip xitec II	22185076	10 pieces	760 pieces	0.25 kg
PCA 1x21 T5 BASIC Ip xitec II	22185090	10 pieces	760 pieces	0.25 kg
PCA 1x24 T5 BASIC Ip xitec II	22185078	10 pieces	760 pieces	0.25 kg
PCA 1x28 T5 BASIC Ip xitec II	22185086	10 pieces	760 pieces	0.25 kg
PCA 1x35 T5 BASIC Ip xitec II	22185080	10 pieces	760 pieces	0.25 kg
PCA 1x39 T5 BASIC Ip xitec II	22185092	10 pieces	760 pieces	0.25 kg
PCA 1x49 T5 BASIC Ip xitec II	22185082	10 pieces	760 pieces	0.25 kg
PCA 1x54 T5 BASIC Ip xitec II	22185088	10 pieces	760 pieces	0.25 kg
PCA 1x80 T5 BASIC Ip xitec II	22185084	10 pieces	760 pieces	0.25 kg



Product matrix, page 64

Standards, page 64

Wiring diagrams and installation examples, page 110

Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 2 lamps</b>				
PCA 2x14 T5 BASIC Ip xrtec II	22185077	10 pieces	760 pieces	0.25 kg
PCA 2x21 T5 BASIC Ip xrtec II	22185091	10 pieces	760 pieces	0.25 kg
PCA 2x24 T5 BASIC Ip xrtec II	22185079	10 pieces	760 pieces	0.25 kg
PCA 2x28 T5 BASIC Ip xrtec II	22185087	10 pieces	640 pieces	0.35 kg
PCA 2x35 T5 BASIC Ip xrtec II	22185081	10 pieces	760 pieces	0.25 kg
PCA 2x39 T5 BASIC Ip xrtec II	22185093	10 pieces	760 pieces	0.25 kg
PCA 2x49 T5 BASIC Ip xrtec II	22185083	10 pieces	760 pieces	0.25 kg
PCA 2x54 T5 BASIC Ip xrtec II	22185089	10 pieces	640 pieces	0.35 kg
PCA 2x80 T5 BASIC Ip xrtec II	22185085	10 pieces	640 pieces	0.35 kg

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>①</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>												
1 x 14 W	T5	PCA 1x14 T5 BASIC Ip xrtec II	22185076	360 x 30 x 21 mm	350 mm	14 W	16.0 W	A1 BAT	0.08 A	0.95	80 °C	-25 ... 70 °C
1 x 21 W	T5	PCA 1x21 T5 BASIC Ip xrtec II	22185090	360 x 30 x 21 mm	350 mm	21 W	23.0 W	A1 BAT	0.11 A	0.95	80 °C	-25 ... 70 °C
1 x 24 W	T5	PCA 1x24 T5 BASIC Ip xrtec II	22185078	360 x 30 x 21 mm	350 mm	23 W	25.5 W	A1 BAT	0.12 A	0.97	80 °C	-25 ... 70 °C
1 x 28 W	T5	PCA 1x28 T5 BASIC Ip xrtec II	22185086	360 x 30 x 21 mm	350 mm	28 W	30.5 W	A1 BAT	0.14 A	0.95	80 °C	-25 ... 75 °C
1 x 35 W	T5	PCA 1x35 T5 BASIC Ip xrtec II	22185080	360 x 30 x 21 mm	350 mm	35 W	39.0 W	A1 BAT	0.18 A	0.95	85 °C	-25 ... 75 °C
1 x 36 W	TC-L	PCA 1x39 T5 BASIC Ip xrtec II	22185092	360 x 30 x 21 mm	350 mm	32 W	35.5 W	A1 BAT	0.16 A	0.96	80 °C	-25 ... 65 °C
1 x 39 W	T5	PCA 1x39 T5 BASIC Ip xrtec II	22185092	360 x 30 x 21 mm	350 mm	38 W	41.5 W	A1 BAT	0.19 A	0.97	80 °C	-25 ... 65 °C
1 x 40 W	TC-L	PCA 1x39 T5 BASIC Ip xrtec II	22185092	360 x 30 x 21 mm	350 mm	40 W	43.0 W	A1 BAT	0.20 A	0.98	80 °C	-25 ... 65 °C
1 x 49 W	T5	PCA 1x49 T5 BASIC Ip xrtec II	22185082	360 x 30 x 21 mm	350 mm	49 W	53.0 W	A1 BAT	0.25 A	0.97	80 °C	-25 ... 70 °C
1 x 54 W	T5	PCA 1x54 T5 BASIC Ip xrtec II	22185088	360 x 30 x 21 mm	350 mm	54 W	58.0 W	A1 BAT	0.26 A	0.98	80 °C	-25 ... 70 °C
1 x 55 W	TC-L	PCA 1x80 T5 BASIC Ip xrtec II	22185084	360 x 30 x 21 mm	350 mm	55 W	60.0 W	A1 BAT	0.28 A	0.97	80 °C	-25 ... 60 °C
1 x 80 W	T5	PCA 1x80 T5 BASIC Ip xrtec II	22185084	360 x 30 x 21 mm	350 mm	80 W	85.5 W	A1 BAT	0.40 A	0.99	80 °C	-25 ... 60 °C
1 x 80 W	TC-L	PCA 1x80 T5 BASIC Ip xrtec II	22185084	360 x 30 x 21 mm	350 mm	80 W	85.5 W	A1 BAT	0.36 A	0.98	80 °C	-25 ... 60 °C
<b>For luminaires with 2 lamps</b>												
2 x 14 W	T5	PCA 2x14 T5 BASIC Ip xrtec II	22185077	360 x 30 x 21 mm	350 mm	28 W	30.5 W	A1 BAT	0.14 A	0.96	80 °C	-25 ... 70 °C
2 x 21 W	T5	PCA 2x21 T5 BASIC Ip xrtec II	22185091	360 x 30 x 21 mm	350 mm	41 W	45.5 W	A1 BAT	0.21 A	0.96	85 °C	-25 ... 70 °C
2 x 18 W	TC-L	PCA 2x24 T5 BASIC Ip xrtec II	22185079	360 x 30 x 21 mm	350 mm	32 W	38.0 W	A1 BAT	0.15 A	0.96	80 °C	-25 ... 65 °C
2 x 24 W	T5	PCA 2x24 T5 BASIC Ip xrtec II	22185079	360 x 30 x 21 mm	350 mm	45 W	49.5 W	A1 BAT	0.22 A	0.98	80 °C	-25 ... 65 °C
2 x 24 W	TC-L	PCA 2x24 T5 BASIC Ip xrtec II	22185079	360 x 30 x 21 mm	350 mm	44 W	49.0 W	A1 BAT	0.21 A	0.98	80 °C	-25 ... 65 °C
2 x 28 W	T5	PCA 2x28 T5 BASIC Ip xrtec II	22185087	425 x 30 x 21 mm	415 mm	56 W	60.5 W	A1 BAT	0.28 A	0.96	80 °C	-25 ... 70 °C
2 x 35 W	T5	PCA 2x35 T5 BASIC Ip xrtec II	22185081	360 x 30 x 21 mm	350 mm	70 W	74.5 W	A1 BAT	0.34 A	0.97	80 °C	-25 ... 65 °C
2 x 36 W	TC-L	PCA 2x39 T5 BASIC Ip xrtec II	22185093	360 x 30 x 21 mm	350 mm	64 W	71.0 W	A1 BAT	0.31 A	0.98	85 °C	-25 ... 65 °C
2 x 39 W	T5	PCA 2x39 T5 BASIC Ip xrtec II	22185093	360 x 30 x 21 mm	350 mm	76 W	82.0 W	A1 BAT	0.37 A	0.98	85 °C	-25 ... 65 °C
2 x 40 W	TC-L	PCA 2x39 T5 BASIC Ip xrtec II	22185093	360 x 30 x 21 mm	350 mm	80 W	86.0 W	A1 BAT	0.40 A	0.99	85 °C	-25 ... 65 °C
2 x 49 W	T5	PCA 2x49 T5 BASIC Ip xrtec II	22185083	360 x 30 x 21 mm	350 mm	98 W	105.5 W	A1 BAT	0.49 A	0.98	80 °C	-25 ... 60 °C
2 x 54 W	T5	PCA 2x54 T5 BASIC Ip xrtec II	22185089	425 x 30 x 21 mm	415 mm	108 W	117.0 W	A1 BAT	0.51 A	0.99	85 °C	-25 ... 55 °C
2 x 55 W	TC-L	PCA 2x80 T5 BASIC Ip xrtec II	22185085	425 x 30 x 21 mm	415 mm	110 W	116.5 W	A1 BAT	0.52 A	0.99	80 °C	-25 ... 55 °C
2 x 80 W	T5	PCA 2x80 T5 BASIC Ip xrtec II	22185085	425 x 30 x 21 mm	415 mm	160 W	167.0 W	A1 BAT	0.74 A	0.99	80 °C	-25 ... 55 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



NEW

**PCA T8 BASIC Ip x:tec II, 18 – 58 W**  
T8 fluorescent lamps

**Product description**

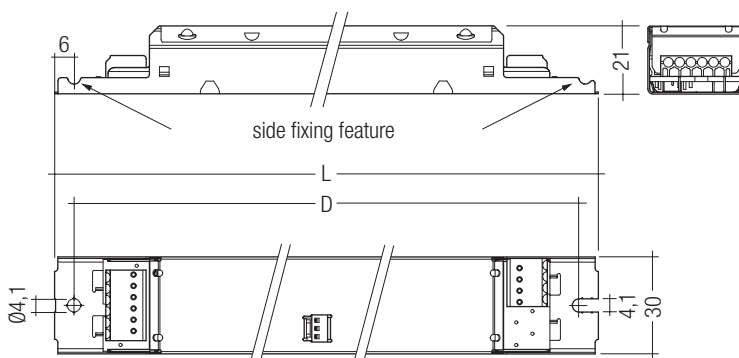
- Processor-controlled ballast with x:tec II inside
- Highest possible energy class CELMA EEI = A1 BAT®
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- 5-year guarantee

**Interfaces**

- DSI
- switchDIM (with memory function)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART interface for function with SMART Sensor 5D 19f and corridorFUNCTION plugs

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - corridorFUNCTION with ambient light control
  - Automatically triggered emergency lighting value in DC mode, 15 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	10 – 100 %
Lamp start possible from	10 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x18 T8 BASIC Ip x:tec II	22185241	10 pieces	760 pieces	0.25 kg
PCA 1x36 T8 BASIC Ip x:tec II	28000042	10 pieces	760 pieces	0.25 kg
PCA 1x58 T8 BASIC Ip x:tec II	28000043	10 pieces	760 pieces	0.25 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x18 T8 BASIC Ip x:tec II	22185244	10 pieces	760 pieces	0.25 kg
PCA 2x36 T8 BASIC Ip x:tec II	28000044	10 pieces	760 pieces	0.25 kg
PCA 2x58 T8 BASIC Ip x:tec II	28000045	10 pieces	640 pieces	0.35 kg



Product matrix, page 64

Standards, page 64

Wiring diagrams and installation examples, page 110

Specific technical data

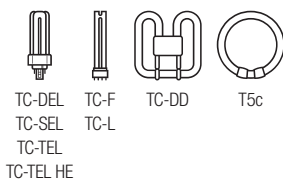
Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>												
1 x 18 W	T8	PCA 1x18 T8 BASIC Ip xitec II	22185241	360 x 30 x 21 mm	350 mm	16.5 W	18.5 W	A1 BAT	0.08 A	0.96	80 °C	-25 ... 70 °C
1 x 36 W	T8	PCA 1x36 T8 BASIC Ip xitec II	28000042	360 x 30 x 21 mm	350 mm				in preparation			
1 x 58 W	T8	PCA 1x58 T8 BASIC Ip xitec II	28000043	360 x 30 x 21 mm	350 mm				in preparation			
<b>For luminaires with 2 lamps</b>												
2 x 18 W	T8	PCA 2x18 T8 BASIC Ip xitec II	22185244	360 x 30 x 21 mm	350 mm	32.5 W	37.5 W	A1 BAT	0.16 A	0.98	75 °C	-25 ... 60 °C
2 x 36 W	T8	PCA 2x18 T8 BASIC Ip xitec II	28000044	360 x 30 x 21 mm	350 mm				in preparation			
2 x 58 W	T8	PCA 2x18 T8 BASIC Ip xitec II	28000045	425 x 30 x 21 mm	415 mm				in preparation			

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



NEW

**PCA TC BASIC xitec II, 11 – 57 W**  
Compact and T5c fluorescent lamps

**Product description**

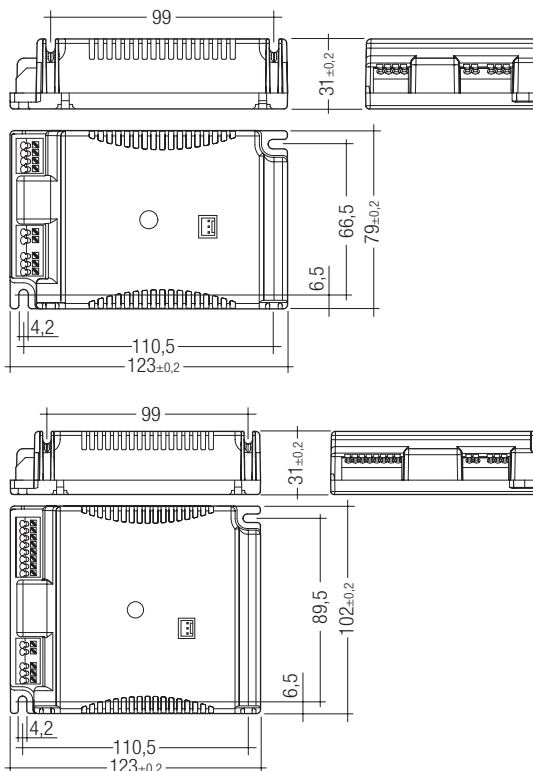
- Processor-controlled ballast with xitec II inside
- Highest possible energy class CELMA EEI = A1 BAT®
- Noise-free precise control via DSI signal, switchDIM or corridorFUNCTION
- Nominal life up to 100,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- 5-year guarantee

**Interfaces**

- DSI
- switchDIM (with memory function)
- corridorFUNCTION (3 preprogrammed profiles)
- Integrated SMART interface for function with SMART Sensor 5D 19f and corridorFUNCTION plugs

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - corridorFUNCTION with ambient light control
  - Automatically triggered emergency lighting value in DC mode, 15 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.2 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range	10 – 100 %
Lamp start possible from	10 %
Operating frequency	~ 40 – 130 kHz
Type of protection	IP20

→ **Product matrix**, page 64

**Standards**, page 64

**Wiring diagrams and installation examples**, page 110

Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCA 1x11/13 TC BASIC xrttec II	22185118	10 pieces	500 pieces	0.18 kg
PCA 1x18 TC BASIC xrttec II	22185114	10 pieces	500 pieces	0.18 kg
PCA 1x18/24 TCL BASIC c xrttec II	22185253	10 pieces	500 pieces	0.18 kg
PCA 1x26-57 TC BASIC xrttec II	22185112	10 pieces	500 pieces	0.18 kg
PCA 1x28 TC-DD BASIC xrttec II	22185256	10 pieces	500 pieces	0.18 kg
PCA 1x55 T5c BASIC xrttec II	22185116	10 pieces	500 pieces	0.18 kg
<b>For luminaires with 2 lamps</b>				
PCA 2x11/13 TC BASIC xrttec II	22185119	10 pieces	500 pieces	0.20 kg
PCA 2x18 TC BASIC xrttec II	22185115	10 pieces	500 pieces	0.20 kg
PCA 2x18/24 TCL BASIC c xrttec II	22185259	10 pieces	500 pieces	0.20 kg
PCA 2x26/32/42 TC BASIC xrttec II	22185113	10 pieces	500 pieces	0.20 kg

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEL	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 1 lamp</b>											
1 x 11 W	TC-SEL	PCA 1x11/13 TC BASIC xrttec II	22185118	123 x 79 x 31 mm	11.0 W	12.5 W	A1	0.06 A	0.96	75 °C	-25 ... 70 °C
1 x 11 W	TC-TEL HE	PCA 1x11/13 TC BASIC xrttec II	22185118	123 x 79 x 31 mm	11.5 W	13.0 W	A1	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 13 W	TC-DEL	PCA 1x11/13 TC BASIC xrttec II	22185118	123 x 79 x 31 mm	12.5 W	13.5 W	A1 BAT	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 13 W	TC-TEL	PCA 1x11/13 TC BASIC xrttec II	22185118	123 x 79 x 31 mm	12.5 W	14.0 W	A1 BAT	0.07 A	0.96	75 °C	-25 ... 70 °C
1 x 14 W	TC-TEL HE	PCA 1x11/13 TC BASIC xrttec II	22185118	123 x 79 x 31 mm	14.5 W	16.0 W	A1 BAT	0.08 A	0.97	75 °C	-25 ... 70 °C
1 x 17 W	TC-TEL HE	PCA 1x11/13 TC BASIC xrttec II	22185118	123 x 79 x 31 mm	17.5 W	19.0 W	A1 BAT	0.09 A	0.98	75 °C	-25 ... 70 °C
1 x 18 W	TC-DEL	PCA 1x18 TC BASIC xrttec II	22185114	123 x 79 x 31 mm	16.5 W	19.0 W	A1 BAT	0.09 A	0.95	80 °C	-25 ... 70 °C
1 x 18 W	TC-TEL	PCA 1x18 TC BASIC xrttec II	22185114	123 x 79 x 31 mm	16.5 W	18.5 W	A1 BAT	0.09 A	0.95	80 °C	-25 ... 70 °C
1 x 18 W	TC-F	PCA 1x18/24 TCL BASIC c xrttec II	22185253	123 x 79 x 31 mm	15.0 W	18.5 W	A1 BAT	0.08 A	0.96	75 °C	-25 ... 65 °C
1 x 18 W	TC-L	PCA 1x18/24 TCL BASIC c xrttec II	22185253	123 x 79 x 31 mm	16.0 W	18.5 W	A1 BAT	0.08 A	0.96	75 °C	-25 ... 65 °C
1 x 22 W	T5-R	PCA 1x18/24 TCL BASIC c xrttec II	22185253	123 x 79 x 31 mm	22.0 W	25.0 W	A1 BAT	0.11 A	0.98	75 °C	-25 ... 65 °C
1 x 24 W	TC-F	PCA 1x18/24 TCL BASIC c xrttec II	22185253	123 x 79 x 31 mm	20.0 W	24.5 W	A1 BAT	0.11 A	0.98	75 °C	-25 ... 65 °C
1 x 24 W	TC-L	PCA 1x18/24 TCL BASIC c xrttec II	22185253	123 x 79 x 31 mm	16.0 W	24.5 W	A1 BAT	0.12 A	0.98	75 °C	-25 ... 65 °C
1 x 26 W	TC-DEL	PCA 1x26-57 TC BASIC xrttec II	22185112	123 x 79 x 31 mm	24.0 W	26.5 W	A1 BAT	0.13 A	0.95	75 °C	-25 ... 65 °C
1 x 26 W	TC-TEL	PCA 1x26-57 TC BASIC xrttec II	22185112	123 x 79 x 31 mm	24.0 W	27.0 W	A1 BAT	0.13 A	0.95	75 °C	-25 ... 65 °C
1 x 32 W	TC-TEL	PCA 1x26-57 TC BASIC xrttec II	22185112	123 x 79 x 31 mm	32.0 W	35.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... 65 °C
1 x 40 W	T5-R	PCA 1x26-57 TC BASIC xrttec II	22185112	123 x 79 x 31 mm	40.0 W	43.0 W	A1 BAT	0.16 A	0.97	75 °C	-25 ... 65 °C
1 x 40 W	TC-L	PCA 1x26-57 TC BASIC xrttec II	22185112	123 x 79 x 31 mm	40.0 W	43.0 W	A1 BAT	0.18 A	0.97	75 °C	-25 ... 65 °C
1 x 42 W	TC-TEL	PCA 1x26-57 TC BASIC xrttec II	22185112	123 x 79 x 31 mm	42.0 W	44.0 W	A1 BAT	0.20 A	0.98	75 °C	-25 ... 65 °C
1 x 57 W	TC-TEL	PCA 1x26-57 TC BASIC xrttec II	22185112	123 x 79 x 31 mm	57.0 W	61.0 W	A1 BAT	0.24 A	0.98	75 °C	-25 ... 65 °C
1 x 28 W	TC-DD	PCA 1x28 TC-DD BASIC xrttec II	22185256	123 x 79 x 31 mm	26.5 W	27.5 W	A1 BAT	0.13 A	0.98	75 °C	-25 ... 65 °C
1 x 55 W	T5-R	PCA 1x55 T5c BASIC xrttec II	22185116	123 x 79 x 31 mm	55.0 W	59.0 W	A1 BAT	0.26 A	0.98	70 °C	-25 ... 55 °C
<b>For luminaires with 2 lamps</b>											
2 x 11 W	TC-SEL	PCA 2x11/13 TC BASIC xrttec II	22185119	123 x 102 x 31 mm	22.0 W	24.5 W	A1 BAT	0.11 A	0.96	70 °C	-25 ... 60 °C
2 x 11 W	TC-TEL HE	PCA 2x11/13 TC BASIC xrttec II	22185119	123 x 102 x 31 mm	23.5 W	26.0 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 13 W	TC-DEL	PCA 2x11/13 TC BASIC xrttec II	22185119	123 x 102 x 31 mm	25.0 W	27.0 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 13 W	TC-TEL	PCA 2x11/13 TC BASIC xrttec II	22185119	123 x 102 x 31 mm	25.0 W	27.5 W	A1 BAT	0.12 A	0.96	70 °C	-25 ... 60 °C
2 x 14 W	TC-TEL HE	PCA 2x11/13 TC BASIC xrttec II	22185119	123 x 102 x 31 mm	29.0 W	31.0 W	A1 BAT	0.15 A	0.97	70 °C	-25 ... 60 °C
2 x 17 W	TC-TEL HE	PCA 2x11/13 TC BASIC xrttec II	22185119	123 x 102 x 31 mm	35.0 W	37.5 W	A1 BAT	0.17 A	0.98	70 °C	-25 ... 60 °C
2 x 18 W	TC-DEL	PCA 2x18 TC BASIC xrttec II	22185115	123 x 102 x 31 mm	33.0 W	36.0 W	A1 BAT	0.17 A	0.97	75 °C	-25 ... 70 °C
2 x 18 W	TC-TEL	PCA 2x18 TC BASIC xrttec II	22185115	123 x 102 x 31 mm	33.0 W	36.0 W	A1 BAT	0.17 A	0.97	75 °C	-25 ... 70 °C
2 x 18 W	TC-F	PCA 2x18/24 TCL BASIC c xrttec II	22185259	123 x 102 x 31 mm	15.0 W	37.0 W	A1 BAT	0.15 A	0.96	75 °C	-25 ... 60 °C
2 x 18 W	TC-L	PCA 2x18/24 TCL BASIC c xrttec II	22185259	123 x 102 x 31 mm	16.0 W	37.0 W	A1 BAT	0.16 A	0.97	75 °C	-25 ... 60 °C
2 x 24 W	TC-F	PCA 2x18/24 TCL BASIC c xrttec II	22185259	123 x 102 x 31 mm	20.0 W	48.0 W	A1 BAT	0.21 A	0.98	75 °C	-25 ... 60 °C
2 x 24 W	TC-L	PCA 2x18/24 TCL BASIC c xrttec II	22185259	123 x 102 x 31 mm	22.0 W	48.0 W	A1 BAT	0.22 A	0.98	75 °C	-25 ... 60 °C
2 x 26 W	TC-DEL	PCA 2x26/32/42 TC BASIC xrttec II	22185113	123 x 102 x 31 mm	48.0 W	52.0 W	A1 BAT	0.24 A	0.96	75 °C	-25 ... 60 °C
2 x 26 W	TC-TEL	PCA 2x26/32/42 TC BASIC xrttec II	22185113	123 x 102 x 31 mm	48.0 W	52.0 W	A1 BAT	0.24 A	0.96	75 °C	-25 ... 60 °C
2 x 32 W	TC-TEL	PCA 2x26/32/42 TC BASIC xrttec II	22185113	123 x 102 x 31 mm	64.0 W	68.0 W	A1 BAT	0.29 A	0.97	75 °C	-25 ... 60 °C
2 x 42 W	TC-TEL	PCA 2x26/32/42 TC BASIC xrttec II	22185113	123 x 102 x 31 mm	84.0 W	88.5 W	A1 BAT	0.39 A	0.98	75 °C	-25 ... 60 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



PCA T5 EXCITE Ip xrtec, 3x14/24 W and 4x14/24 W  
T5 fluorescent lamps

**Product description**

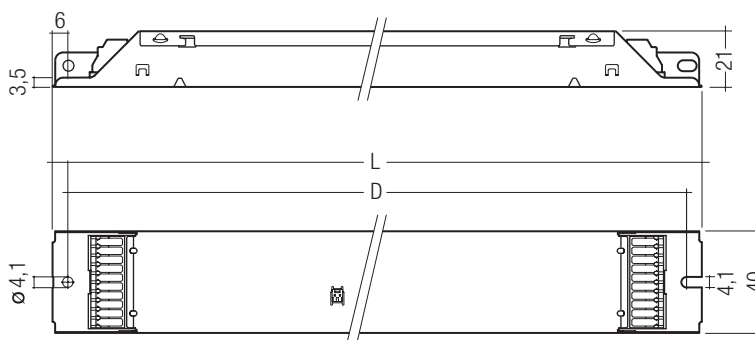
- Processor-controlled ballast with xrtec inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>①</sup>
- Noise-free precise control via DALI or switchDIM
- Multi-lamp management
- OEM-specific reserved memory areas
- Extended DALI commands
- 5-year guarantee

**Interfaces**

- DALI
- switchDIM (with memory function + selectable dimming rate)

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - Fade rates between 50 ms and 90 s (min. – max.)
  - Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Lamp start possible from	5 % (3 lamps), 1 % (4 lamps)
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 3 lamps</b>				
PCA 3x14/24 T5 EXCITE Ip	22176710	20 pieces	600 pieces	0.29 kg
<b>For luminaires with 4 lamps</b>				
PCA 4x14/24 T5 EXCITE Ip	22176711	20 pieces	600 pieces	0.33 kg



Product matrix, page 64

Standards, page 64

Wiring diagrams and installation examples, page 110

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEI	Current at 50 Hz 230 V <sup>②</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 3 lamps</b>												
3 x 14 W	T5	PCA 3x14/24 T5 EXCITE Ip	22176710	360 x 40 x 21 mm	350 mm	42 W	46.5 W	A1 BAT	0.21 A	0.97	75 °C	-25 ... 60 °C
3 x 24 W	T5	PCA 3x14/24 T5 EXCITE Ip	22176710	360 x 40 x 21 mm	350 mm	72 W	73.0 W	A1 BAT	0.32 A	0.97	75 °C	-25 ... 55 °C
<b>For luminaires with 4 lamps</b>												
4 x 14 W	T5	PCA 4x14/24 T5 EXCITE Ip	22176711	360 x 40 x 21 mm	350 mm	56 W	60.5 W	A1 BAT	0.27 A	0.97	75 °C	-25 ... 60 °C
4 x 24 W	T5	PCA 4x14/24 T5 EXCITE Ip	22176711	360 x 40 x 21 mm	350 mm	96 W	97.5 W	A1 BAT	0.43 A	0.97	75 °C	-25 ... 50 °C

① According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

② Valid at 100 % dimming level.

③ +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.





**PCA T8 EXCITE Ip xitec, 3x18 W and 4x18 W**  
T8 fluorescent lamps

**Product description**

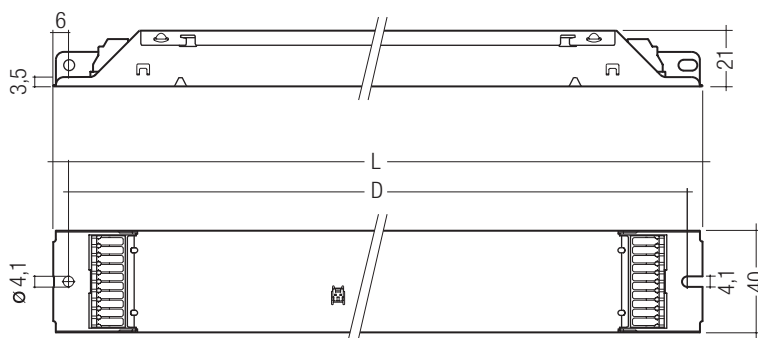
- Processor-controlled ballast with xitec inside
- Highest possible energy class CELMA EEI = A1 BAT<sup>①</sup>
- Noise-free precise control via DALI or switchDIM
- OEM-specific reserved memory areas
- Extended DALI commands
- 5-year guarantee

**Interfaces**

- DALI
- switchDIM (with memory function + selectable dimming rate)

**Functions**

- Intelligent Temperature Guard (overtemperature protection)
  - Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
  - Optimum filament heating in any dimmer setting
  - Disconnection of filament heating from a dimming level of approx. 90 % for maximum energy efficiency (SMART-Heating concept)
  - Fade rates between 50 ms and 90 s (min. – max.)
  - Automatically triggered emergency lighting value in DC mode, can be set between 1 and 100 %
  - For emergency lighting systems as per EN 50172
  - Automatic start after replacement of defective lamps
  - Automatic shutdown if the lamp is faulty
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V (lamp start ≥ 198 V DC)
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 1 h
Typ. power input on standby	< 0.5 W
Protective hot restart	0.5 s for AC / 0.2 s for DC
Dimming range, 3 lamps	5 – 100 %
Dimming range, 4 lamps	1 – 100 %
Lamp start possible from	5 % (3 lamps), 1 % (4 lamps)
Operating frequency	~ 40 – 100 kHz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 3 lamps</b>				
PCA 3x18 T8 EXCITE Ip xitec	22185246	20 pieces	600 pieces	0.33 kg
<b>For luminaires with 4 lamps</b>				
PCA 4x18 T8 EXCITE Ip	22185249	20 pieces	600 pieces	0.33 kg



Product matrix, page 64

Standards, page 64

Wiring diagrams and installation examples, page 110

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power <sup>②</sup>	Circuit power <sup>②</sup>	EEI	Current at 50 Hz 230 V <sup>③</sup>	λ at 50 Hz 230 V	tc point max.	Ambient temperature ta <sup>③</sup>
<b>For luminaires with 4 lamps</b>												
3 x 18 W	T8	PCA 3x18 T8 EXCITE Ip xitec	22185246	360 x 40 x 21 mm	350 mm	48.5 W	51 W	A1 BAT	0.23 A	0.97	75 °C	-25 ... 60 °C
<b>For luminaires with 4 lamps</b>												
4 x 18 W	T8	PCA 4x18 T8 EXCITE Ip	22185249	360 x 40 x 21 mm	350 mm	65.0 W	69 W	A1 BAT	0.31 A	0.98	80 °C	-25 ... 60 °C

<sup>①</sup> According to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010.

<sup>②</sup> Valid at 100 % dimming level.

<sup>③</sup> +10 °C to ta max: unrestricted dimming. -25 °C to +10 °C: unrestricted dimming from 100 % to 30 %.

-25 °C to +10 °C, dimming below 30 %: malfunction possible but no damage to ECG. This applies to AC and DC operation.



RoHS

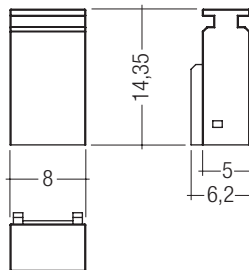
NEW

**SMART Plug cF**  
corridorFUNCTION Plug

Digital dimmable  
ballasts

**Product description**

- Accessories for ballasts PCA EXCEL one4all, PCA ECO and PCA BASIC of the x!tec II generation
  - Enables simple profile setting for the corridorFUNCTION
  - Quick and simple installation possible (check installation instructions)
  - No additional software required
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request
- For detailed information about lifetime and operational conditions please refer to the datasheet



**Technical data**

Supply via	SMART interface
Current draw	< 1 mA from SMART interface
Operating temperature	-25 ... +70 °C
Storage temperature	-25 ... +85 °C
Type of protection	IP20
Max. casing temperature tc	85 °C

**Ordering data**

Type	Article number	Packaging, bag
SMART Plug cF n.o.	86459316	10 pieces
SMART Plug cF 01	86459314	10 pieces
SMART Plug cF 30	86459315	10 pieces

**Specific technical data**

Type	Labelling	corridorFUNCTION profile
SMART Plug cF n.o. <sup>①</sup>	cF n.o.	never off
SMART Plug cF 01 <sup>①</sup>	cF01	switch off 1 minute
SMART Plug cF 30 <sup>①</sup>	cF30	switch off 30 minutes

<sup>①</sup> For devices with x!tec II processors only.

RoHS

NEW

## SMART Plug Gr

### Grouping Plug

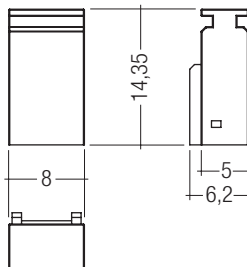
#### Product description

- Accessories for ballasts PCA EXCEL one4all of the xitec II generation
  - Enables simple DALI group addressing
  - Quick and simple installation possible  
(check installation instructions)
  - No additional software required
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request
- For detailed information about lifetime and operational  
conditions please refer to the datasheet



#### Technical data

Supply via	SMART interface
Current draw	< 1 mA from SMART interface
Operating temperature	-25 ... +70 °C
Storage temperature	-25 ... +85 °C
Type of protection	IP20
Max. casing temperature tc	85 °C



#### Ordering data

Type	Article number	Packaging, bag
SMART Plug Gr A	86459317	10 pieces
SMART Plug Gr B	86459318	10 pieces
SMART Plug Gr C	86459319	10 pieces
SMART Plug Gr D	86459320	10 pieces

#### Specific technical data

Type	Labelling	DALI group
SMART Plug Gr A	Gr A	1
SMART Plug Gr B	Gr B	2
SMART Plug Gr C	Gr C	3
SMART Plug Gr D	Gr D	4

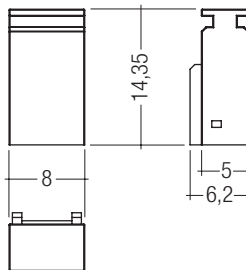
RoHS

## SMART Plug Ma Maintenance Plug

Digital dimmable  
ballasts

### Product description

- Accessories for ballasts PCA EXCEL one4all of the xitec II generation
  - Enables simple replacement in illumination systems
  - Quick and simple installation possible  
(check installation instructions)
  - No additional software required
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request
- For detailed information about lifetime and  
operational conditions please refer to the datasheet



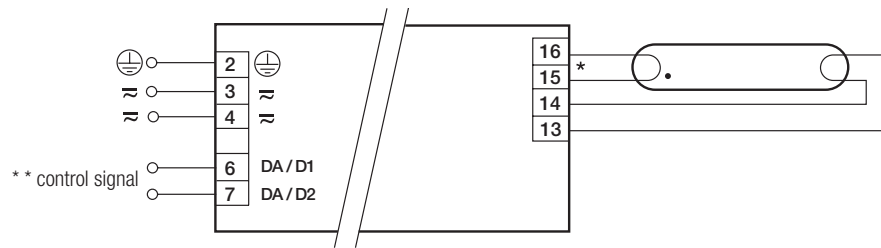
### Technical data

Supply via	SMART interface
Current draw	< 1 mA from SMART interface
Operating temperature	-25 ... +70 °C
Storage temperature	-25 ... +85 °C
Type of protection	IP20
Max. casing temperature tc	85 °C

### Ordering data

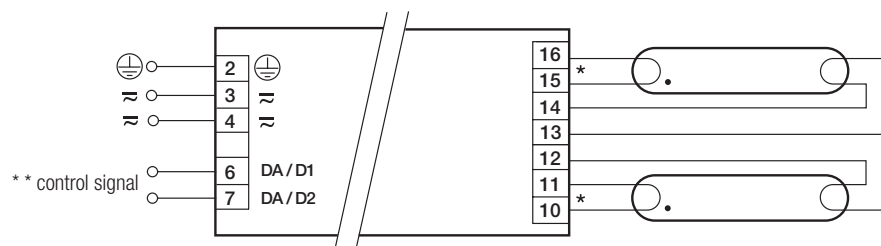
Type	Article number	Packaging, bag
SMART Plug Ma	86459321	10 pieces

PCA T5/T8 EXCEL one4all Ip xrtec II 1x14–80 W



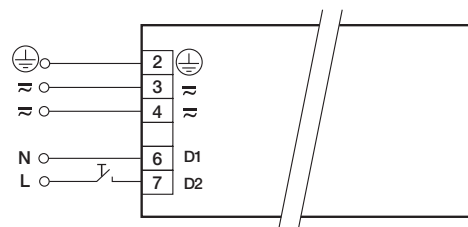
- \* leads 15, 16: keep wires short, max. 1.0 m
- leads 13, 14: max. 2.0 m; ballast must be earthed
- \*\* digital signal (DSI), DALI or switchDIM

PCA T5/T8 EXCEL one4all Ip xrtec II 2x14–80 W

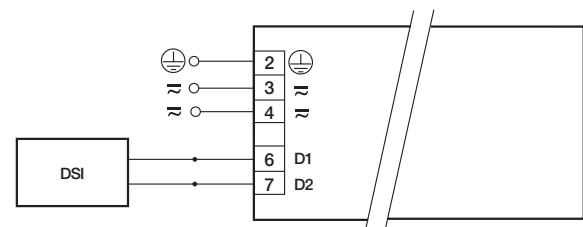


- \* leads 10, 11, 15, 16: keep wires short, max. 1.0 m
- leads 12, 13, 14: max. 2.0 m; ballast must be earthed
- \*\* digital signal (DSI), DALI or switchDIM

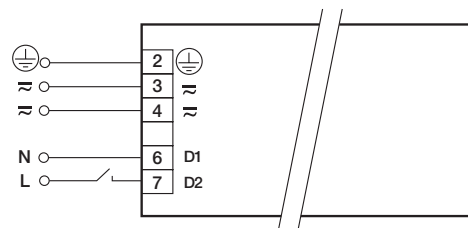
switchDIM PCA T5/T8 EXCEL one4all Ip xrtec II



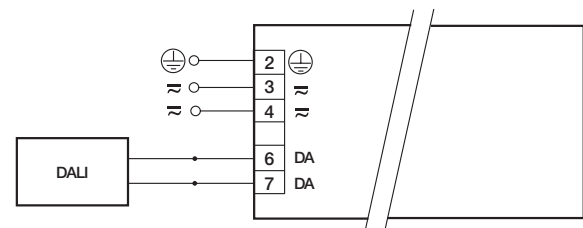
DSI PCA T5/T8 EXCEL one4all Ip xrtec II



corridorFUNCTION PCA T5/T8 EXCEL one4all Ip xrtec II

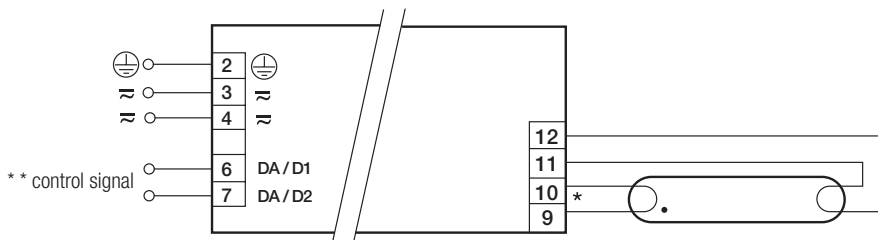


DALI PCA T5/T8 EXCEL one4all Ip xrtec II



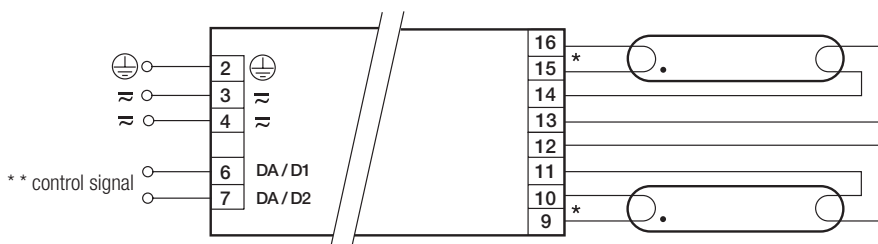
Please note: dimmable ballasts from Tridonic must be earthed.

PCA T8 EXCEL one4all Ip x:tec 1x36–58 W



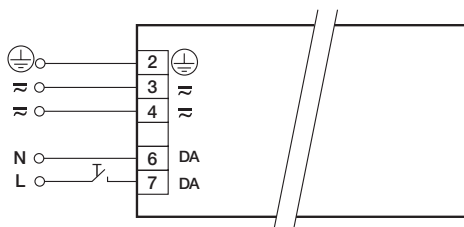
- \* leads 9, 10: keep wires short, max. 1.0 m
- leads 11, 12: max. 2.0 m; ballast must be earthed
- \*\* digital signal (DSI), DALI or switchDIM

PCA T8 EXCEL one4all Ip x:tec 2x36–58 W

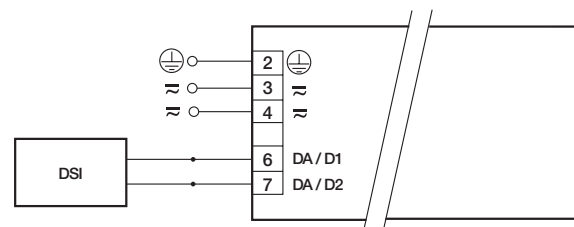


- \* leads 9, 10, 15, 16: keep wires short, max. 1.0 m
- leads 11, 12, 13, 14: max. 2.0 m; ballast must be earthed
- \*\* digital signal (DSI), DALI or switchDIM

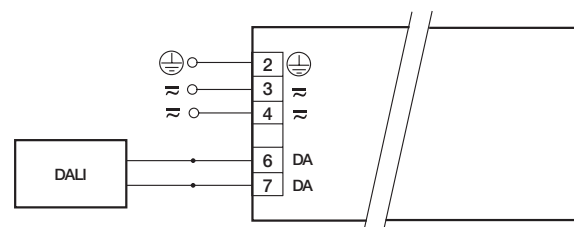
switchDIM PCA T8 EXCEL one4all Ip x:tec



DSI PCA T8 EXCEL one4all Ip x:tec

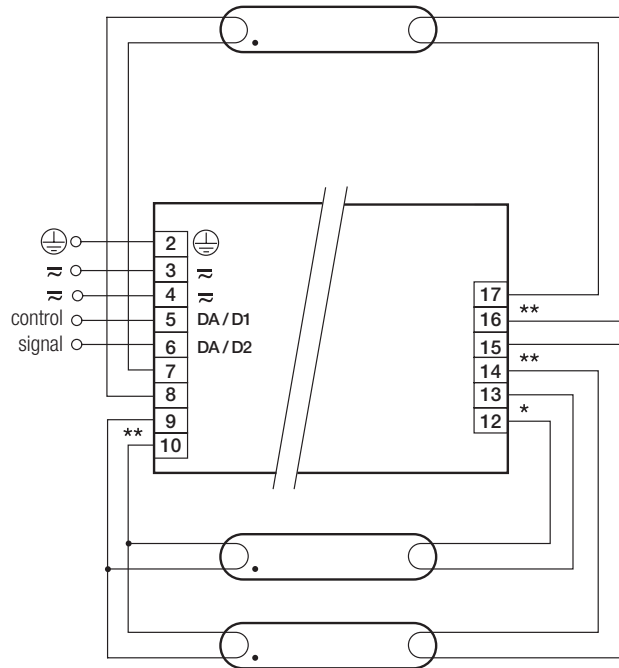


DALI PCA T8 EXCEL one4all Ip x:tec



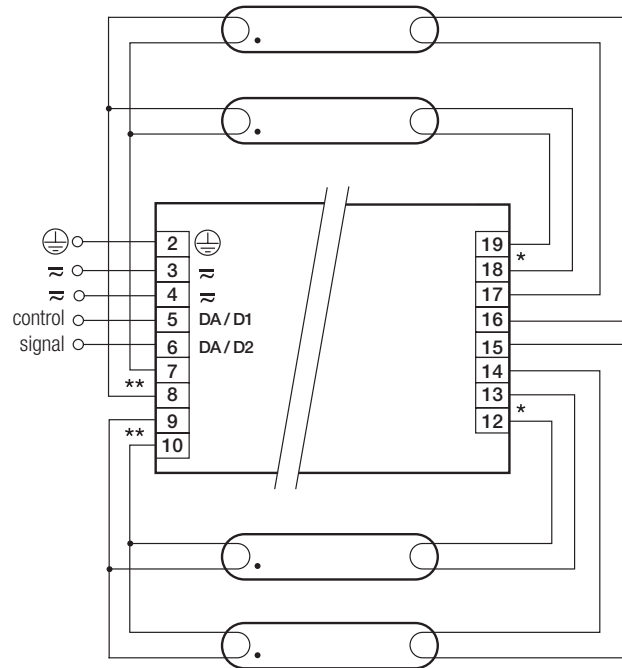
Please note: dimmable ballasts from Tridonic must be earthed.

PCA 3x14, 3x18 EXCEL Ip x:tec



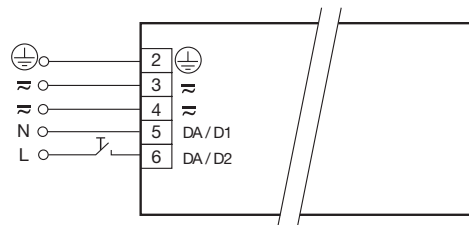
- \* leads 12, 13: keep wires short, max. 1.0 m
- \*\* leads 9, 10, 14, 15, 16, 17: keep wires short, max. 0.5 m  
leads 7, 8: max. 2.0 m

PCA 4x14, 4x18 EXCEL Ip x:tec



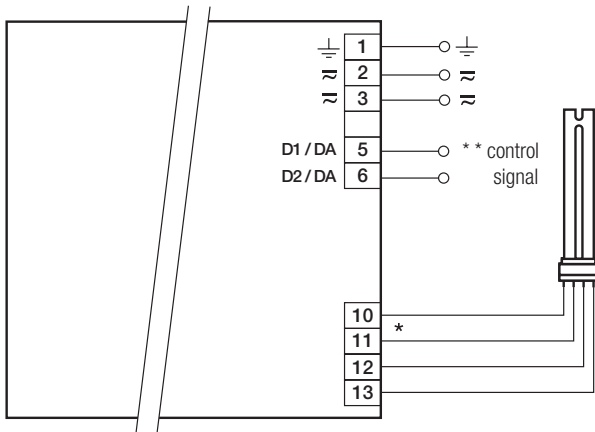
- \* leads 12, 13, 18, 19: keep wires short, max. 1.0 m
- \*\* leads 7, 8, 9, 10: keep wires short, max. 0.5 m  
leads 14, 15, 16, 17: max. 2.0 m

switchDIM PCA EXCEL one4all 3x14, 3x18, 4x14, 4x18



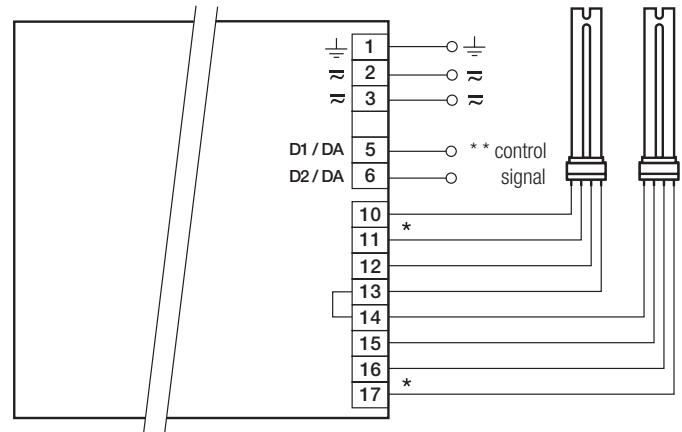
Please note: dimmable ballasts from Tridonic must be earthed.

PCA TC EXCEL one4all x:tec II 1x18–57 W



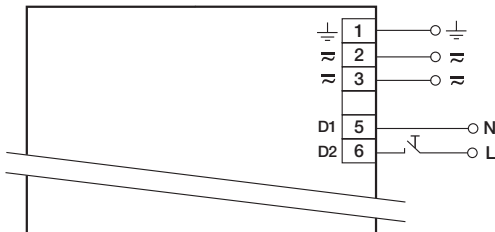
- \* leads 10, 11: keep wires short, max. 1.0 m  
leads 12, 13 max. 2.0 m; ballast must be earthed
- \*\* digital signal DALI, DSI or switchDIM

PCA TC EXCEL one4all x:tec II 2x18–42 W

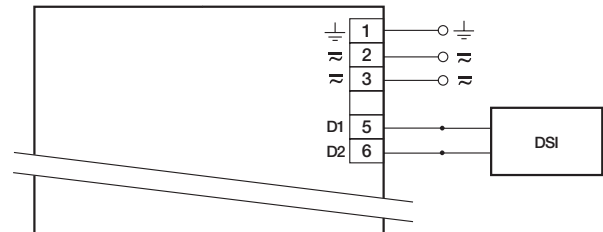


- \* leads 10, 11, 16, 17 keep wires short, max. 1.0 m  
leads 12, 13, 14, 15 max. 2.0 m; EVG erden
- \*\* digital signal DALI, DSI or switchDIM

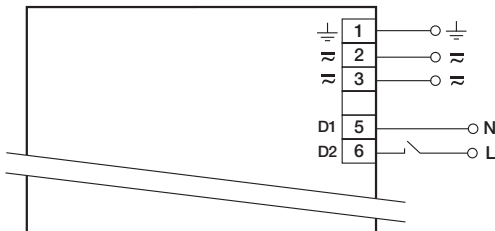
switchDIM PCA TC EXCEL one4all Ip x:tec II



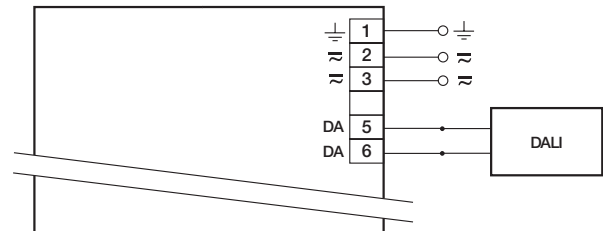
DSI PCA TC EXCEL one4all Ip x:tec II



corridorFUNCTION PCA TC EXCEL one4all Ip x:tec IIa

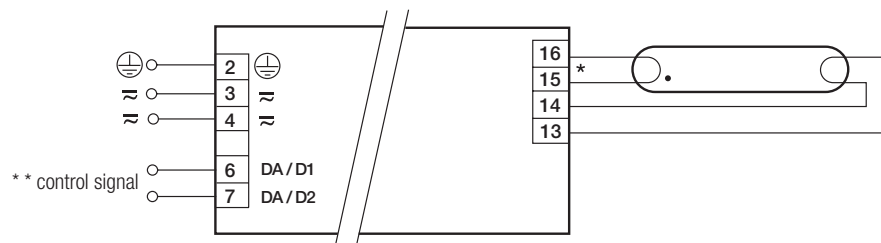


DALI PCA TC EXCEL one4all Ip x:tec II



Please note: dimmable ballasts from Tridonic must be earthed.

PCA T5/T8 ECO Ip xrtec II 1x14-80 W



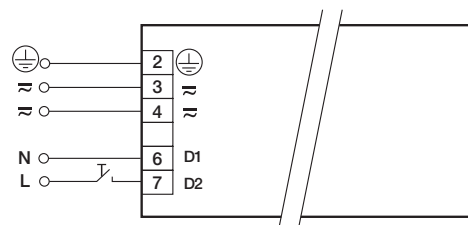
- \* leads 15, 16: keep wires short, max. 1.0 m
- leads 13, 14: max. 2.0 m; ballast must be earthed
- \*\* digital signal (DSI), DALI or switchDIM

PCA T5/T8 ECO Ip xrtec II 2x14-80 W

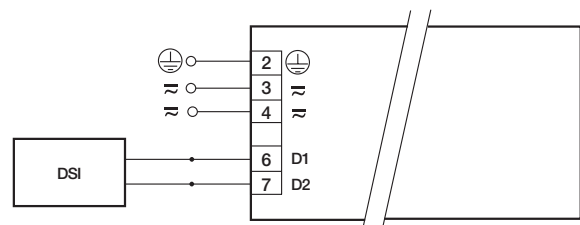


- \* leads 10, 11, 15, 16: keep wires short, max. 1.0 m
- leads 12, 13, 14: max. 2.0 m; ballast must be earthed
- \*\* digital signal (DSI), DALI or switchDIM

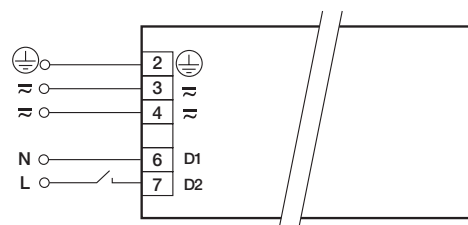
switchDIM PCA T5/T8 ECO xrtec II



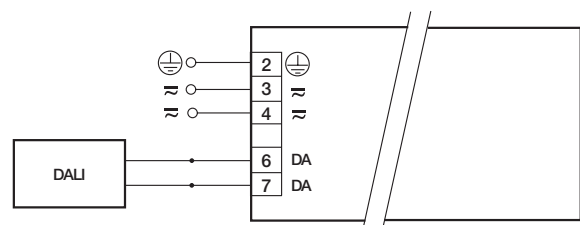
DSI PCA PCA T5/T8 ECO xrtec II



corridorFUNCTION PCA T5/T8 ECO xrtec II



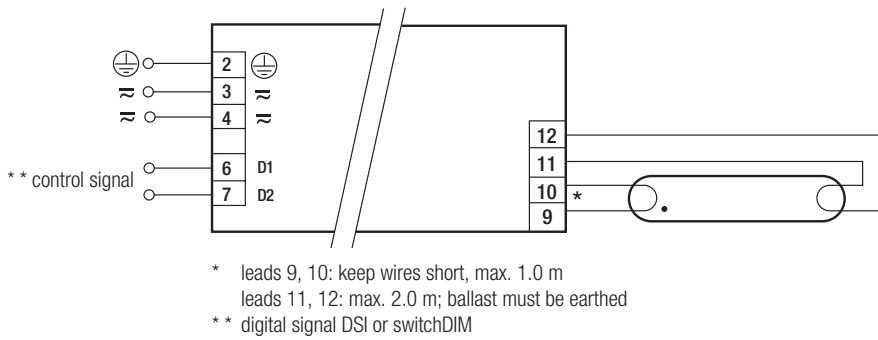
DALI PCA T5/T8 ECO xrtec II



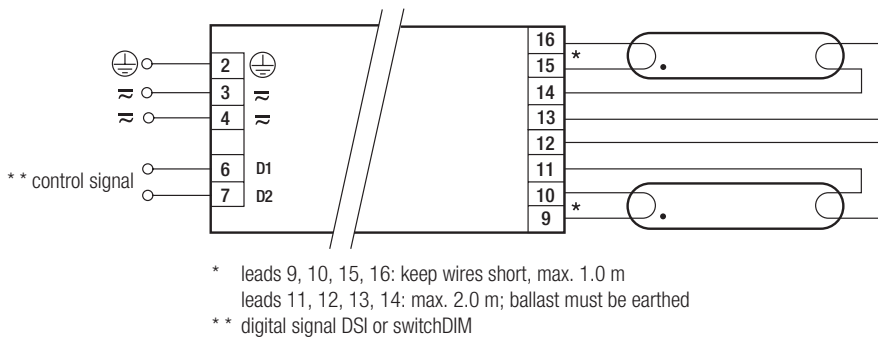
Please note: dimmable ballasts from Tridonic must be earthed.



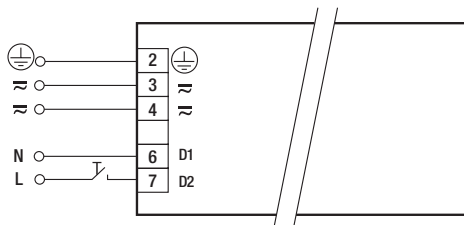
PCA T8 ECO Ip x:tec 1x36–58 W



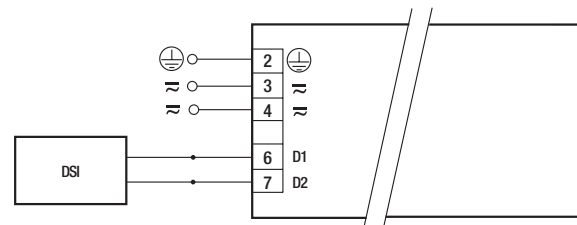
PCA T8 ECO Ip x:tec 2x36–58 W



switchDIM PCA T8 ECO Ip x:tec

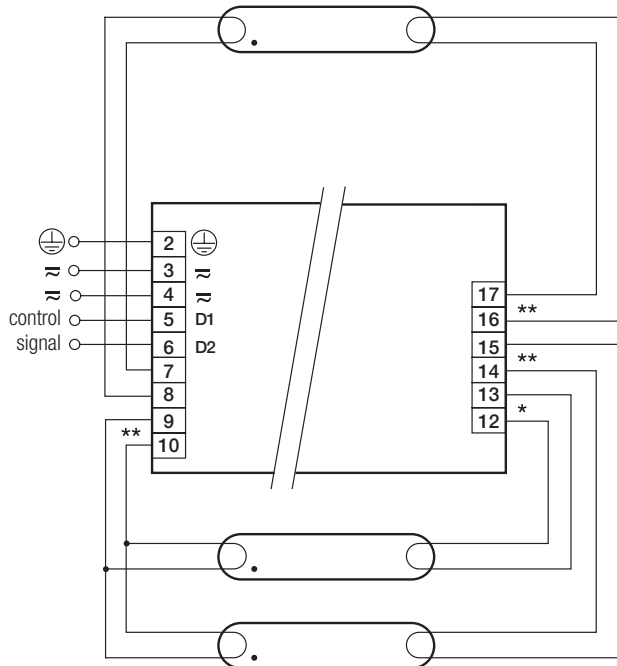


DSI PCA T8 ECO Ip x:tec



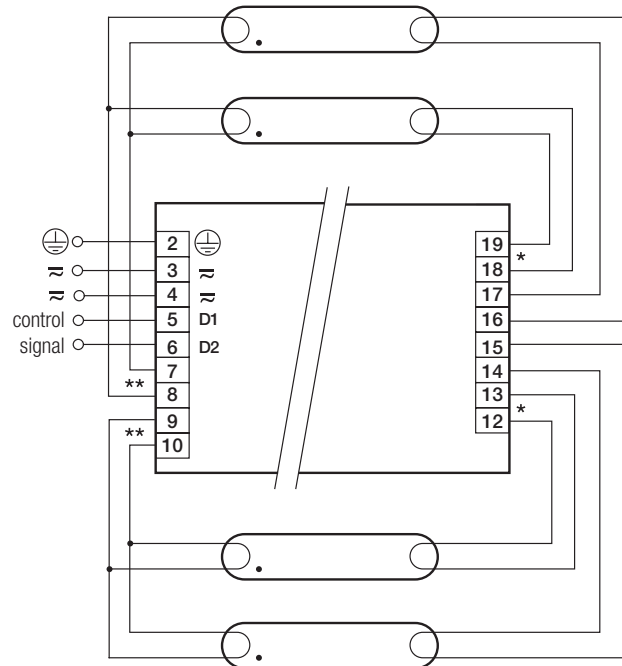
Please note: dimmable ballasts from Tridonic must be earthed.

PCA 3x14, 3x18 ECO Ip xitec



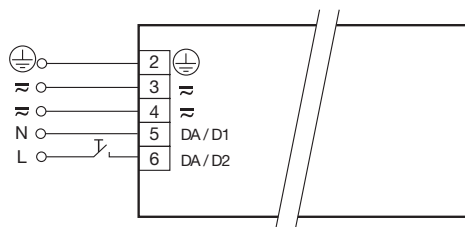
- \* leads 12, 13: keep wires short, max. 1.0 m
- \*\* leads 9, 10, 14, 15, 16, 17: keep wires short, max. 0.5 m  
leads 7, 8: max. 2.0 m

PCA 4x14, 4x18 ECO Ip xitec



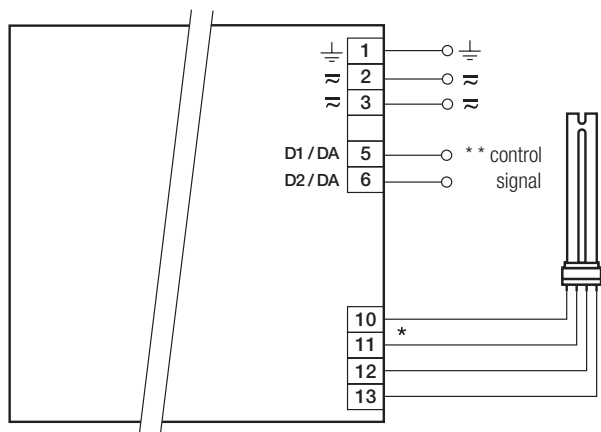
- \* leads 12, 13, 18, 19: keep wires short, max. 1.0 m
- \*\* leads 7, 8, 9, 10: keep wires short, max. 0.5 m  
leads 14, 15, 16, 17: max. 2.0 m

switchDIM PCA ECO 3x14, 3x18, 4x14, 4x18



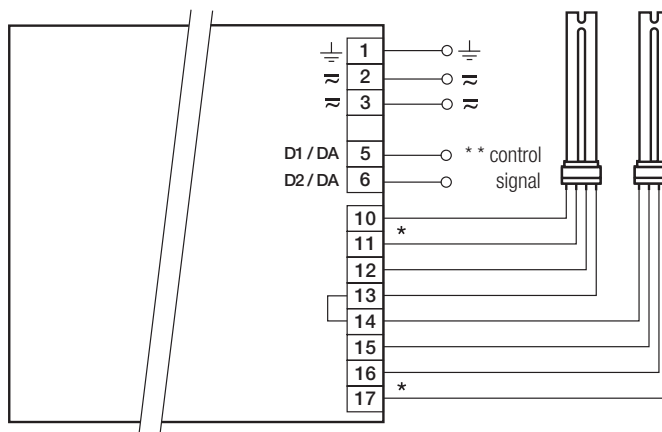
Please note: dimmable ballasts from Tridonic must be earthed.

PCA TC ECO x:tec II 1x18-57 W



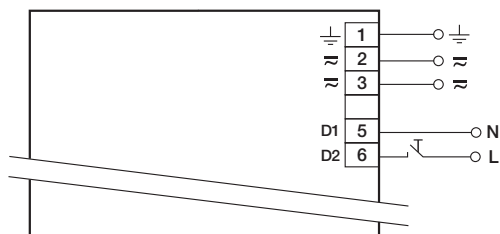
- \* leads 10, 11: keep wires short, max. 1.0 m  
leads 12, 13 max. 2.0 m; ballast must be earthed
- \*\* digital signal DALI, DSI or switchDIM

PCA TC ECO x:tec II 2x18-42 W

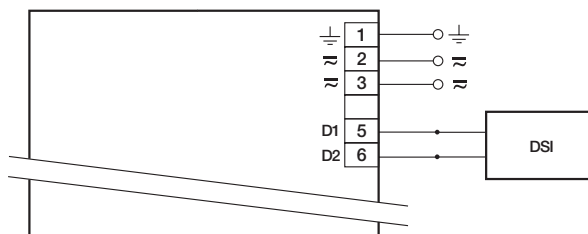


- \* leads 10, 11, 16, 17 keep wires short, max. 1.0 m  
leads 12, 13, 14, 15 max. 2.0 m; EVG erden
- \*\* digital signal DALI, DSI or switchDIM

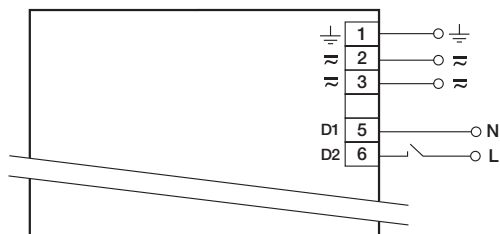
switchDIM PCA TC EXCEL one4all Ip x:tec II



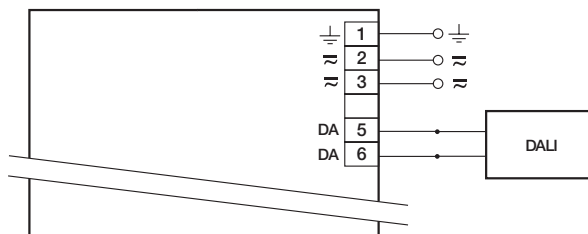
DSI PCA TC EXCEL one4all Ip x:tec II



corridorFUNCTION PCA TC EXCEL one4all Ip x:tec IIa

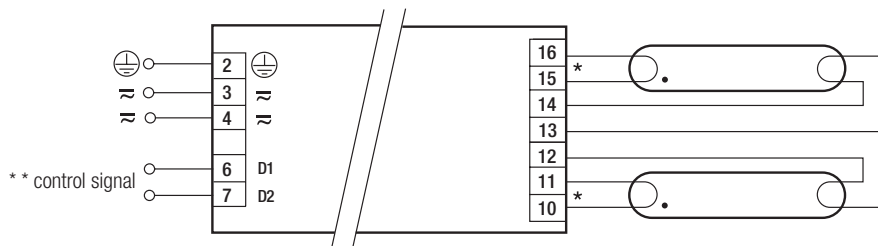


DALI PCA TC EXCEL one4all Ip x:tec II



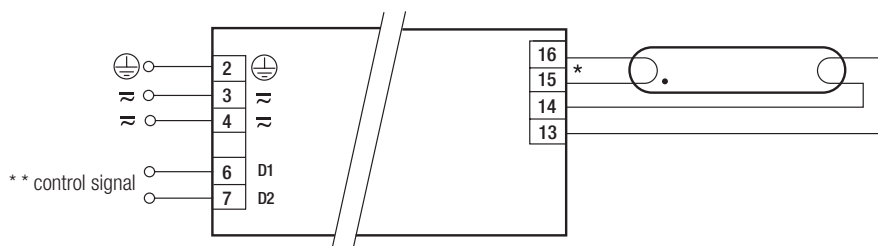
Please note: dimmable ballasts from Tridonic must be earthed.

PCA T5/T8 BASIC Ip x:tec II 1x14–80 W



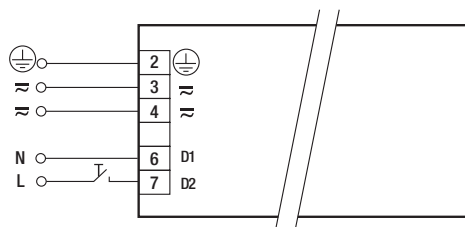
- \* leads 10, 11, 15, 16: keep wires short, max. 1.0 m
- leads 12, 13, 14: max. 2.0 m; ballast must be earthed
- \*\* digital signal DSI or switchDIM

PCA T5/T8 BASIC Ip x:tec II 2x14–80 W

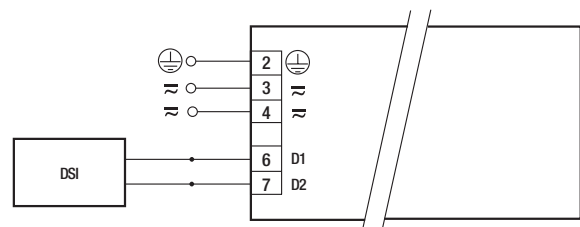


- \* leads 15, 16: keep wires short, max. 1.0 m
- leads 13, 14: max. 2.0 m; ballast must be earthed
- \*\* digital signal DSI-Signal or switchDIM

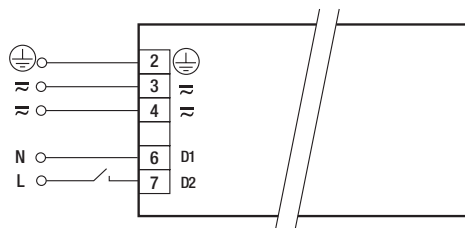
switchDIM PCA T5/T8 BASIC Ip x:tec II



DSI PCA PCA T5/T8 BASIC Ip x:tec II

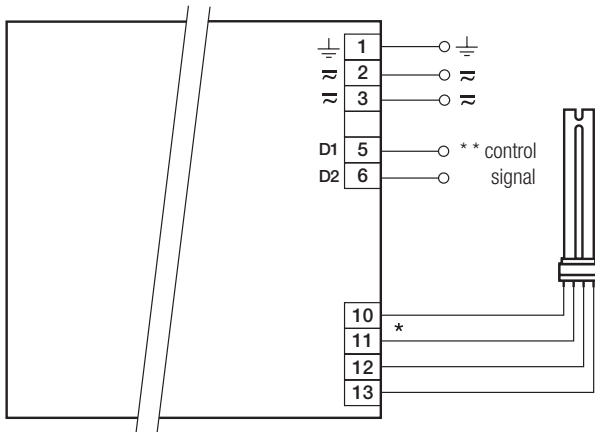


corridorFUNCTION PCA T5/T8 BASIC Ip x:tec II



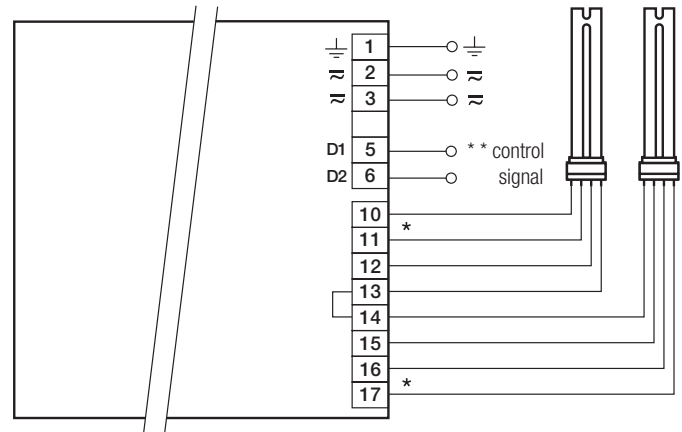
Please note: dimmable ballasts from Tridonic must be earthed.

PCA TC BASIC x:tec II 1x18–57 W



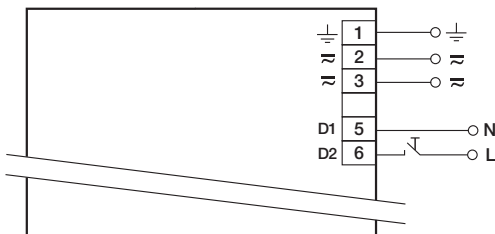
- \* leads 10, 11: keep wires short, max. 1.0 m
- leads 12, 13 max. 2.0 m; ballast must be earthed
- \*\* digital signal DSI or switchDIM

PCA TC BASIC x:tec II 2x26–42 W

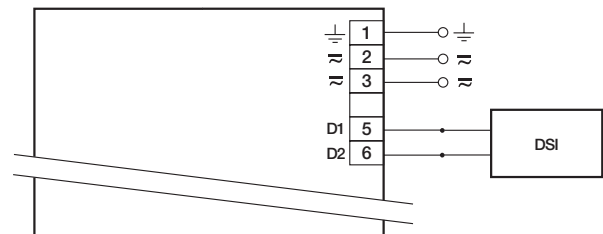


- \* leads 10, 11, 16, 17: keep wires short, max. 1.0 m
- leads 12, 13, 14, 15 max. 2.0 m; ballast must be earthed
- \*\* digital signal DSI or switchDIM

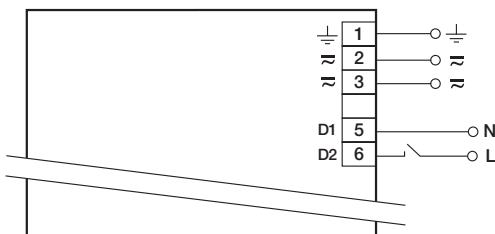
switchDIM PCA TC BASIC x:tec II



DSI PCA TC BASIC x:tec II



corridorFUNCTION PCA TC BASIC x:tec II



Please note: dimmable ballasts from Tridonic must be earthed.



## Overview

Product overview	Page 122
Standards	Page 123

## Product information

Magnetic chokes for fluorescent lamps	Page 124
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### EC series

Suitable for lamp type

#### 230 V 50 Hz

EC 4 – 85 W, push-in terminal	Page 126	T5	T8	CFL
EC 15 – 75 W, ConCut / IDC terminal	Page 128	•	•	•

#### 240 V 50 Hz

EC 4 – 26 W, push-in terminal	Page 130	•	•	•
EC 15 – 75 W, ConCut / IDC terminal	Page 132	•	•	•

### ETAWATT series

#### 230 V 50 Hz

ETAWATT 18 – 58 W	Page 134		•	•
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### EC series, protection class II

#### 230 V 50 Hz

EC 18 – 28 W	Page 135		•	•
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Wiring diagrams and installation examples	Page 136
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## Product overview

**EC**

Lamp types: T5, T8, T12, TC-L,  
TC-S, TC-D, TC-DD

Magnetic chokes for linear and compact fluorescent lamps:

- Max. winding temperature  $t_w = 130\text{ °C}$
- Nominal life time 100,000 hours at  $t_w = 130\text{ °C}$
- Additional types on request

**ETAWATT**

Lamp types: T8, T12, TC-L,  
TC-D, TC-DD

Magnetic chokes for linear and compact fluorescent lamps:

- Max. winding temperature  $t_w = 130\text{ °C}$
- Plug terminal  $0.5 - 1.5\text{ mm}^2$  for rigid wires

**EC (SK 2)**

Lamp types: T5, T8, TC-L,  
TC-S, TC-D, TC-DD

Magnetic chokes, encapsulated, with reinforced insulation  
for class II applications:

- Max. winding temperature  $t_w = 130\text{ °C}$
- Plug terminal  $0.5 - 1.5\text{ mm}^2$  for rigid wires
- Irreversible thermal cutout
- Trigger value, thermal protection  $150\text{ °C}$

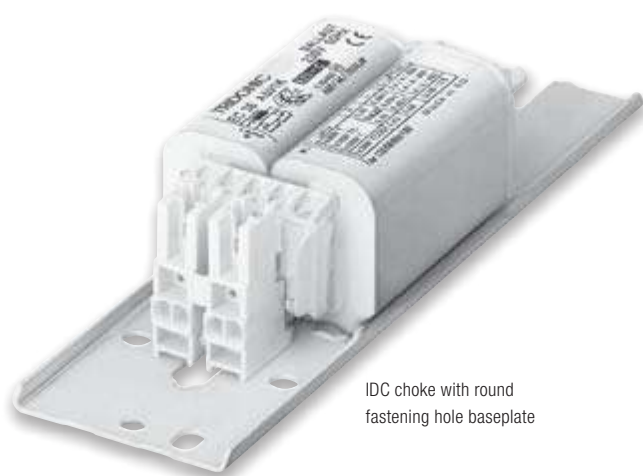


## Standards

					EN 60921	EN 61347-1	EN 61347-2/8
Series	Voltage	Connection technology	Type	Page			
EC	230 V	push-in terminal	EC 4 – 85 W	Page 126	•	•	•
		ConCut / IDC terminal	EC 15 – 75 W	Page 128	•	•	•
	240 V	push-in terminal	EC 4 – 26 W	Page 130	•	•	•
		ConCut / IDC terminal	EC 15 – 75 W	Page 132	•	•	•
ETAWATT	230 V	push-in terminal	ETAWATT 18 – 58 W	Page 134	•	•	•
EC – SK II	230 V	push-in terminal	EC 18 – 28 W	Page 135	•		•

## Magnetic chokes for fluorescent lamps

EC magnetic chokes for fluorescent lamps, compact fluorescent lamps and the luminaire insets for compact fluorescent lamps UEC are robust and extremely cost-effective solutions with long lives. The wide range of low-loss chokes in energy efficiency classes B2 and B1 from Tridonic covers all the relevant applications and ensures that the lamps are operated as specified.



All EC magnetic chokes for luminaire installation are characterised by minimal energy consumption, compact windings, optimised dimensions and high-quality materials.

In temperature-sensitive applications, the EEI = B1 version offers additional benefits thanks to its lower energy consumption and 15 K lower self-heating.

### Optimised for specified lamp operation

EC magnetic chokes ensure that the preheating current, ignition voltage and lamp current all remain within the specified tolerances for optimum operation of fluorescent lamps.

Long lamp life can only be achieved by preheating the electrodes before the ignition voltage is applied to the lamp. The EC units heat to precisely the right temperature because if the preheat current is too low or too high the lamp electrodes will be destroyed and the life of the lamp cut short.

The chokes ensure a sufficiently high ignition voltage after the preheat phase by opening a glow starter or electronic starter. The latter automatically selects the right time to open the starter to reliably ignite the lamp at very high or very low ambient temperatures.

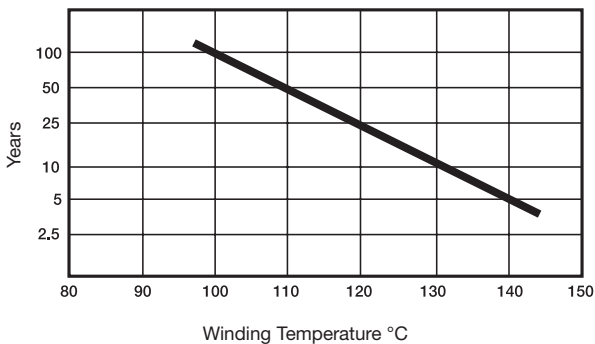
The EC chokes are designed to very narrow tolerances so the impedance perfectly limits the lamp current and maximum luminous flux is achieved.

The low magnetic leakage field – and therefore the very low noise emission – means that the magnetic chokes from Tridonic can be placed near electrical equipment that is sensitive to interference.

### Design for long life

Because of their high-quality insulation material, coil core and copper wire, chokes in the EC series from Tridonic achieve a nominal life of approximately 100,000 hours of operation, in other words about ten years of constant use at a winding temperature of 130 °C ( $t_w = 130\text{ °C}$ ).

The winding temperature is the ambient temperature plus the increase in temperature due to the power consumption of the unit. A change in temperature of 10 °C down or up leads to a doubling or halving of the life of the unit.



### Constant high quality

Uniform high quality standards are guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture also ensures constant reproducible quality. All the chokes are subjected to 100 % final testing and safety testing.

### Standards and approval marks

EC magnetic chokes from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electro-magnetic compatibility (EMC).

### Lamp matrix

Which control gear for which lamp?

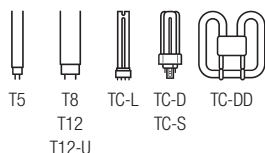
The latest lamp matrix is available on the internet: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

### Technical information

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Data sheets"

### Personal enquiries

A form for personal enquiries is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Contact", submenu "Contact form"



## EC 4 – 85 W, push-in terminal

230 V 50 Hz

## Product description

- Magnetic chokes for fluorescent lamps
  - Nominal life time 100,000 hours at  $t_w = 130\text{ °C}$
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

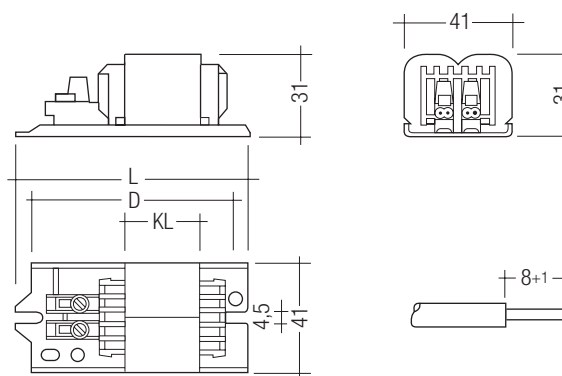
## Technical data

Rated voltage	230 V, 50 Hz
Max. winding temperature $t_w$	130 °C
Push-in terminal	0.5 – 1.5 mm <sup>2</sup> for rigid wires



Standards, page 123

Wiring diagrams and installation examples, page 136

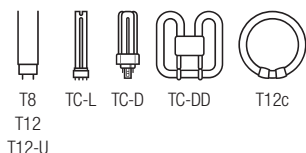


## Ordering data

Type	Article number	Packaging	Packaging, pallet	Weight per piece
<b>Energy Efficiency Index EEI = B2</b>				
EC 8 C101K 230/50 027A084	22148945	5 pieces strapped	2,200 pieces	0.30 kg
EC 09 C101K 230/50 027A084	22148946	5 pieces strapped	2,200 pieces	0.30 kg
EC 13 C101K 230/50 027A084	20821676	5 pieces strapped	2,200 pieces	0.30 kg
EC 16 C101K 230/50 027A084	20887799	5 pieces strapped	2,200 pieces	0.30 kg
EC 18 LC111K 230/50 054A110	22148943	5 pieces strapped	1,400 pieces	0.50 kg
EC 18 TCD C101K 230/50 027A084	20887802	5 pieces strapped	2,200 pieces	0.30 kg
EC 36 LC111K 230/50 054A110	22116601	5 pieces strapped	1,400 pieces	0.50 kg
EC 58 C141K 230/50 090A155	22175010	5 pieces strapped	1,000 pieces	0.85 kg
EC 80/85 C140 230/50 140A231	22175020	5 pieces strapped	600 pieces	1.30 kg
<b>Energy Efficiency Index EEI = B1</b>				
EC 09 B27 230/50 027A084	20821657	5 pieces strapped	2,200 pieces	0.30 kg
EC 13 B27 230/50 027A084	22116351	5 pieces strapped	2,200 pieces	0.30 kg
EC 16 B27 230/50 027A084	20821698	5 pieces strapped	2,200 pieces	0.30 kg
EC 18 B27 230/50 027A084	20821714	5 pieces strapped	2,200 pieces	0.30 kg
EC 30 LB103K 230/50 090A151	20889548	5 pieces strapped	1,000 pieces	0.84 kg
EC 40 B 90 230/50 090A155	20561465	5 pieces strapped	1,000 pieces	0.83 kg
EC 65 B140 230/50 140A231	22175030	5 pieces strapped	600 pieces	1.30 kg

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Length L	Hole spacing D	Core length KL	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
										Capacitor ± 10 % 250 V	Mains current
<b>Energy Efficiency Index EEI = B2</b>											
1 x 4 W	T5	0.170 A	EC 8 C101K	22148945	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.25	2.0 μF	0.04 A
1 x 6 W	T5	0.160 A	EC 8 C101K	22148945	84.5 mm	74.0 – 80.0 mm	27 mm	45 K	0.30	2.0 μF	0.05 A
1 x 8 W	T5	0.145 A	EC 8 C101K	22148945	84.5 mm	74.0 – 80.0 mm	27 mm	45 K	0.35	2.0 μF	0.06 A
2 x 6 W	T5	0.160 A	EC 8 C101K	22148945	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.44	2.0 μF	0.05 A
2 x 4 W	T5	0.170 A	EC 8 C101K	22148945	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.34	2.0 μF	0.05 A
1 x 5 W	TC-S	0.180 A	EC 09 C101K	22148946	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.28	2.0 μF	0.05 A
1 x 7 W	TC-S	0.175 A	EC 09 C101K	22148946	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.32	2.0 μF	0.05 A
1 x 9 W	TC-S	0.170 A	EC 09 C101K	22148946	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.36	2.0 μF	0.06 A
1 x 11 W	TC-S	0.155 A	EC 09 C101K	22148946	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.47	2.0 μF	0.07 A
1 x 13 W	T5	0.165 A	EC 13 C101K	20821676	84.5 mm	74.0 – 80.0 mm	27 mm	45 K	0.45	2.0 μF	0.08 A
1 x 10 W	T8	0.170 A	EC 13 C101K	20821676	84.5 mm	74.0 – 80.0 mm	27 mm	45 K	0.37	2.0 μF	0.07 A
1 x 13 W	TC-D	0.165 A	EC 13 C101K	20821676	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.45	2.0 μF	0.08 A
1 x 10 W	TC-D	0.180 A	EC 13 C101K	20821676	84.5 mm	74.0 – 80.0 mm	27 mm	55 K	0.37	2.0 μF	0.07 A
1 x 10 W	TC-DD	0.180 A	EC 13 C101K	20821676	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.39	2.0 μF	0.07 A
2 x 8 W	T5	0.145 A	EC 13 C101K	20821676	84.5 mm	74.0 – 80.0 mm	27 mm	35 K	0.60	2.0 μF	0.09 A
2 x 7 W	TC-S	0.175 A	EC 13 C101K	20821676	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.46	2.0 μF	0.08 A
2 x 9 W	TC-S	0.170 A	EC 13 C101K	20821676	84.5 mm	74.0 – 80.0 mm	27 mm	45 K	0.57	1.5 μF	0.08 A
1 x 16 W	T8	0.200 A	EC 16 C101K	20887799	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.48	2.0 μF	0.09 A
1 x 16 W	TC-DD	0.195 A	EC 16 C101K	20887799	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.48	2.0 μF	0.09 A
1 x 18 W	T8	0.370 A	EC 18 LC111K	22148943	110.0 mm	97.0 – 105.0 mm	54 mm	55 K	0.32	4.5 μF	0.13 A
1 x 23 W	T8	0.290 A	EC 18 LC111K	22148943	110.0 mm	97.0 – 105.0 mm	54 mm	45 K	0.40	3.5 μF	0.12 A
1 x 18 W	TC-D	0.220 A	EC 18 TCD C101K	20887802	84.5 mm	74.0 – 80.0 mm	27 mm	55 K	0.49	2.0 μF	0.11 A
1 x 36 W	T8	0.430 A	EC 36 LC111K	22116601	110.0 mm	97.0 – 105.0 mm	54 mm	55 K	0.46	4.5 μF	0.22 A
1 x 38 W	T8	0.430 A	EC 36 LC111K	22116601	110.0 mm	97.0 – 105.0 mm	54 mm	55 K	0.49	4.5 μF	0.23 A
1 x 58 W	T8	0.670 A	EC 58 C141K	22175010	155.0 mm	137.5 – 153.5 mm	90 mm	50 K	0.46	7.0 μF	0.67 A
1 x 80 W	T12	0.870 A	EC 80/85 C140	22175020	231.0 mm	210.0 – 224.0 mm	140 mm	45 K	0.46	8.0 μF	0.46 A
1 x 85 W	T12	0.800 A	EC 80/85 C140	22175020	231.0 mm	210.0 – 224.0 mm	140 mm	40 K	0.53	8.0 μF	0.47 A
<b>Energy Efficiency Index EEI = B1</b>											
1 x 5 W	TC-S	0.180 A	EC 09 B27	20821657	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.25	2.0 μF	0.05 A
1 x 7 W	TC-S	0.175 A	EC 09 B27	20821657	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.30	2.0 μF	0.05 A
1 x 9 W	TC-S	0.170 A	EC 09 B27	20821657	84.5 mm	74.0 – 80.0 mm	27 mm	35 K	0.34	2.0 μF	0.06 A
1 x 11 W	TC-S	0.155 A	EC 09 B27	20821657	84.5 mm	74.0 – 80.0 mm	27 mm	35 K	0.43	2.0 μF	0.07 A
1 x 13 W	T5	0.165 A	EC 13 B27	22116351	84.5 mm	74.0 – 80.0 mm	27 mm	35 K	0.46	2.0 μF	0.08 A
1 x 10 W	T8	0.170 A	EC 13 B27	22116351	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.35	2.0 μF	0.07 A
1 x 10 W	TC-D	0.180 A	EC 13 B27	22116351	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.38	2.0 μF	0.06 A
1 x 13 W	TC-D	0.165 A	EC 13 B27	22116351	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.44	2.0 μF	0.07 A
2 x 8 W	T5	0.145 A	EC 13 B27	22116351	84.5 mm	74.0 – 80.0 mm	27 mm	30 K	0.55	2.0 μF	0.09 A
2 x 7 W	TC-S	0.175 A	EC 13 B27	22116351	84.5 mm	74.0 – 80.0 mm	27 mm	40 K	0.45	2.0 μF	0.07 A
2 x 9 W	TC-S	0.170 A	EC 13 B27	22116351	84.5 mm	74.0 – 80.0 mm	27 mm	35 K	0.55	1.5 μF	0.09 A
1 x 16 W	TC-DD	0.195 A	EC 16 B27	20821698	84.5 mm	74.0 – 80.0 mm	27 mm	45 K	0.45	2.0 μF	0.10 A
1 x 18 W	TC-D	0.220 A	EC 18 B27	20821714	84.5 mm	74.0 – 80.0 mm	27 mm	50 K	0.47	2.0 μF	0.11 A
1 x 30 W	T8	0.365 A	EC 30 LB103K	20889548	151.0 mm	110.0 – 144.0 mm	90 mm	35 K	0.36	4.5 μF	0.17 A
2 x 15 W	T8	0.310 A	EC 30 LB103K	20889548	151.0 mm	110.0 – 144.0 mm	90 mm	35 K	0.49	4.5 μF	0.18 A
1 x 36 W	T8	0.430 A	EC 40 B 90	20561465	155.0 mm	137.5 – 153.5 mm	90 mm	30 K	0.43	4.5 μF	0.22 A
1 x 36 W	TC-L	0.430 A	EC 40 B 90	20561465	155.0 mm	137.5 – 153.5 mm	90 mm	40 K	0.45	4.5 μF	0.22 A
1 x 65 W	T12-U	0.670 A	EC 65 B140	22175030	231.0 mm	210.0 – 224.0 mm	140 mm	30 K	0.49	7.0 μF	0.32 A
1 x 58 W	T8	0.670 A	EC 65 B140	22175030	231.0 mm	210.0 – 224.0 mm	140 mm	30 K	0.45	7.0 μF	0.32 A



## EC 15 – 75 W, ConCut / IDC terminal

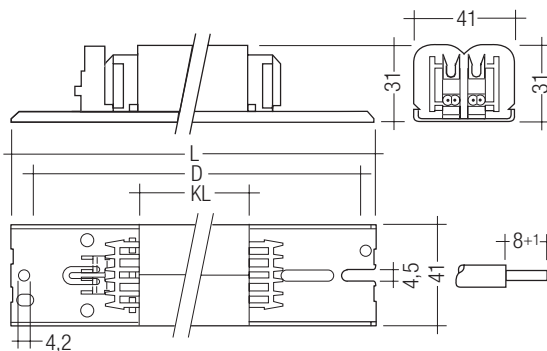
230 V 50 Hz

## Product description

- Magnetic chokes for fluorescent lamps
  - Nominal life time 100,000 hours at  $t_w = 130\text{ °C}$
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

## Technical data

Rated voltage	230 V, 50 Hz
Max. winding temperature $t_w$	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm <sup>2</sup>



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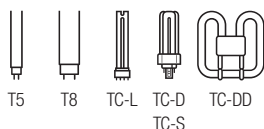
Wiring diagrams and installation examples, page 136

## Ordering data

Type	Article number	Packaging	Packaging, pallet	Weight per piece
<b>Energy Efficiency Index EEI = B2</b>				
EC 15 OC501K 230/50 040A151	22175125	5 pieces strapped	1,400 pieces	0.52 kg
EC 15 C501K 230/50 050A151	22148747	5 pieces strapped	1,400 pieces	0.50 kg
EC 2x18 OC501K 230/50 040A151	22175112	5 pieces strapped	1,400 pieces	0.43 kg
EC 18 C501K 230/50 050A151	22175069	5 pieces strapped	1,400 pieces	0.50 kg
EC 18 LC501K 230/50 054A151	22115859	5 pieces strapped	1,400 pieces	0.55 kg
EC 21 C501K 230/50 050A151	22148753	5 pieces strapped	1,400 pieces	0.50 kg
EC 26 TCD OC111K 230/50 040A110 IDC	22175185	5 pieces strapped	1,800 pieces	0.50 kg
EC 26 OC101K 230/50 050A110 IDC	22148858	5 pieces strapped	1,400 pieces	0.53 kg
EC 30 C501K 230/50 050A151	22148755	5 pieces strapped	1,400 pieces	0.50 kg
EC 32 C501K 230/50 090A191	22149052	5 pieces strapped	1,000 pieces	0.85 kg
EC 36 C501K 230/50 050A151	22175058	5 pieces strapped	1,400 pieces	0.51 kg
EC 36 LC501K 230/50 054A151	22115862	5 pieces strapped	1,400 pieces	0.55 kg
EC 36-1 C501K 230/50 100A191 LOSE	22149284	5 pieces strapped	1,000 pieces	1.00 kg
EC 58 C501K 230/50 090A191	22115907	5 pieces strapped	1,000 pieces	0.85 kg
EC 58 LC501K 230/50 100A191	22148638	5 pieces strapped	1,000 pieces	0.90 kg
EC 70 C501K 230/50 090A191D	22148762	5 pieces strapped	1,000 pieces	0.88 kg
EC 70 LC501K 230/50 100A191D	22149286	5 pieces strapped	1,000 pieces	0.95 kg
<b>Energy Efficiency Index EEI = B1</b>				
EC 18 B 50 230/50 050A110 IDC	22117273	5 pieces strapped	1,600 pieces	0.50 kg
EC 18 B501K 230/50 090A191	22148749	5 pieces strapped	1,000 pieces	0.85 kg
EC 20 B 90 230/50 090A155 IDC	22116988	5 pieces strapped	1,000 pieces	0.84 kg
EC 30 B501K 230/50 054A151	22148754	5 pieces strapped	1,400 pieces	0.55 kg
EC 36 B501K 230/50 090A191	22148758	5 pieces strapped	1,000 pieces	0.85 kg

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Length L	Hole spacing D	Core length KL	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
										Capacitor ± 10 % 250 V	Mains current
<b>Energy Efficiency Index EEI = B2</b>											
1 x 15 W	T8	0.310 A	EC 15 OC501K	22175125	151 mm	110.0 – 144.0 mm	40 mm	60 K	0.33	4.5 µF	0.12 A
1 x 15 W	T8	0.310 A	EC 15 C501K	22148747	151 mm	110.0 – 144.0 mm	50 mm	50 K	0.33	4.5 µF	0.12 A
2 x 18 W	T8	0.370 A	EC 2x18 OC501K	22175112	151 mm	110.0 – 144.0 mm	40 mm	55 K	0.52	4.5 µF	0.22 A
1 x 18 W	T8	0.370 A	EC 18 C501K	22175069	151 mm	110.0 – 144.0 mm	50 mm	55 K	0.33	4.5 µF	0.13 A
1 x 18 W	T8	0.370 A	EC 18 LC501K	22115859	151 mm	110.0 – 144.0 mm	54 mm	55 K	0.32	4.5 µF	0.13 A
1 x 23 W	T8	0.290 A	EC 18 LC501K	22115859	151 mm	110.0 – 144.0 mm	54 mm	45 K	0.40	3.5 µF	0.12 A
1 x 26 W	TC-D	0.325 A	EC 18 LC501K	22115859	151 mm	110.0 – 144.0 mm	54 mm	45 K	0.43	3.0 µF	0.15 A
1 x 28 W	TC-DD	0.320 A	EC 18 LC501K	22115859	151 mm	110.0 – 144.0 mm	54 mm	45 K	0.49	3.0 µF	0.15 A
1 x 18 W	TC-L	0.370 A	EC 18 LC501K	22115859	151 mm	110.0 – 144.0 mm	54 mm	55 K	0.33	4.5 µF	0.13 A
1 x 24 W	TC-L	0.345 A	EC 18 LC501K	22115859	151 mm	110.0 – 144.0 mm	54 mm	50 K	0.38	3.0 µF	0.15 A
1 x 21 W	TC-DD	0.260 A	EC 21 C501K	22148753	151 mm	110.0 – 144.0 mm	50 mm	35 K	0.42	3.0 µF	0.11 A
1 x 26 W	TC-D	0.325 A	EC 26 TCD OC111K	22175185	110 mm	97.0 – 105.0 mm	40 mm	65 K	0.32	3.5 µF	0.14 A
1 x 26 W	TC-D	0.325 A	EC 26 OC101K	22148858	110 mm	97.0 – 105.0 mm	50 mm	45 K	0.43	3.0 µF	0.15 A
1 x 24 W	TC-L	0.345 A	EC 26 OC101K	22148858	110 mm	97.0 – 105.0 mm	50 mm	50 K	0.40	3.0 µF	0.15 A
1 x 30 W	T8	0.365 A	EC 30 C501K	22148755	151 mm	110.0 – 144.0 mm	50 mm	60 K	0.47	4.5 µF	0.17 A
2 x 15 W	T8	0.310 A	EC 30 C501K	22148755	151 mm	110.0 – 144.0 mm	50 mm	50 K	0.49	4.5 µF	0.18 A
1 x 32 W	T12c	0.450 A	EC 32 C501K	22149052	191 mm	150.0 – 184.0 mm	90 mm	35 K	0.40	5.0 µF	0.18 A
1 x 36 W	T8	0.430 A	EC 36 C501K	22175058	151 mm	110.0 – 144.0 mm	50 mm	50 K	0.47	4.5 µF	0.22 A
2 x 18 W	T8	0.370 A	EC 36 C501K	22175058	151 mm	110.0 – 144.0 mm	50 mm	50 K	0.50	4.5 µF	0.22 A
1 x 40 W	T12-U	0.430 A	EC 36 LC501K	22115862	151 mm	110.0 – 144.0 mm	54 mm	55 K	0.51	4.5 µF	0.24 A
1 x 40 W	T12c	0.415 A	EC 36 LC501K	22115862	151 mm	110.0 – 144.0 mm	54 mm	55 K	0.51	4.5 µF	0.24 A
1 x 36 W	T8	0.430 A	EC 36 LC501K	22115862	151 mm	110.0 – 144.0 mm	54 mm	55 K	0.46	4.5 µF	0.22 A
1 x 38 W	T8	0.430 A	EC 36 LC501K	22115862	151 mm	110.0 – 144.0 mm	54 mm	55 K	0.49	4.5 µF	0.23 A
1 x 38 W	TC-DD	0.430 A	EC 36 LC501K	22115862	151 mm	110.0 – 144.0 mm	54 mm	50 K	0.49	4.5 µF	0.23 A
1 x 36 W	TC-L	0.430 A	EC 36 LC501K	22115862	151 mm	110.0 – 144.0 mm	54 mm	55 K	0.44	4.5 µF	0.22 A
2 x 18 W	T8	0.370 A	EC 36 LC501K	22115862	151 mm	110.0 – 144.0 mm	54 mm	50 K	0.52	4.5 µF	0.22 A
2 x 18 W	TC-L	0.370 A	EC 36 LC501K	22115862	151 mm	110.0 – 144.0 mm	54 mm	50 K	0.44	4.5 µF	0.20 A
1 x 40 W	T12c	0.415 A	EC 36-1 C501K	22149284	191 mm	150.0 – 184.0 mm	100 mm	40 K	0.34	6.0 µF	0.21 A
1 x 36 W	T8	0.430 A	EC 36-1 C501K	22149284	191 mm	150.0 – 184.0 mm	100 mm	40 K	0.34	6.0 µF	0.21 A
1 x 58 W	T8	0.670 A	EC 58 C501K	22115907	191 mm	150.0 – 184.0 mm	90 mm	50 K	0.47	7.0 µF	0.32 A
1 x 58 W	T8	0.670 A	EC 58 LC501K	22148638	191 mm	150.0 – 184.0 mm	100 mm	45 K	0.47	7.0 µF	0.31 A
1 x 75 W	T12	0.670 A	EC 70 C501K	22148762	191 mm	150.0 – 184.0 mm	90 mm	45 K	0.55	6.0 µF	0.39 A
1 x 70 W	T8	0.700 A	EC 70 C501K	22148762	191 mm	150.0 – 184.0 mm	90 mm	45 K	0.52	7.0 µF	0.37 A
1 x 75 W	T12	0.670 A	EC 70 LC501K	22149286	191 mm	150.0 – 184.0 mm	100 mm	50 K	0.56	6.0 µF	0.39 A
1 x 70 W	T8	0.700 A	EC 70 LC501K	22149286	191 mm	150.0 – 184.0 mm	100 mm	50 K	0.51	7.0 µF	0.37 A
<b>Energy Efficiency Index EEI = B1</b>											
1 x 18 W	TC-D	0.220 A	EC 18 B 50	22117273	110 mm	97.0 – 105.0 mm	50 mm	25 K	0.42	2.0 µF	0.10 A
1 x 18 W	T8	0.370 A	EC 18 B501K	22148749	191 mm	150.0 – 184.0 mm	90 mm	35 K	0.30	4.5 µF	0.13 A
1 x 23 W	T8	0.290 A	EC 18 B501K	22148749	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.40	3.0 µF	0.14 A
1 x 26 W	TC-D	0.325 A	EC 18 B501K	22148749	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.43	3.0 µF	0.14 A
1 x 28 W	TC-DD	0.320 A	EC 18 B501K	22148749	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.46	3.0 µF	0.15 A
1 x 18 W	TC-L	0.370 A	EC 18 B501K	22148749	191 mm	150.0 – 184.0 mm	90 mm	40 K	0.29	4.5 µF	0.10 A
1 x 24 W	TC-L	0.345 A	EC 18 B501K	22148749	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.39	3.0 µF	0.13 A
1 x 18 W	T8	0.370 A	EC 20 B 90	22116988	155 mm	137.5 – 153.5 mm	90 mm	30 K	0.30	4.5 µF	0.13 A
1 x 26 W	TC-D	0.325 A	EC 20 B 90	22116988	155 mm	137.5 – 153.5 mm	90 mm	35 K	0.38	3.5 µF	0.14 A
1 x 18 W	TC-L	0.370 A	EC 20 B 90	22116988	155 mm	137.5 – 153.5 mm	90 mm	30 K	0.29	4.5 µF	0.13 A
1 x 30 W	T8	0.365 A	EC 30 B501K	22148754	151 mm	110.0 – 144.0 mm	54 mm	45 K	0.44	4.5 µF	0.17 A
2 x 15 W	T8	0.310 A	EC 30 B501K	22148754	151 mm	110.0 – 144.0 mm	54 mm	50 K	0.44	4.5 µF	0.18 A
1 x 40 W	T12-U	0.430 A	EC 36 B501K	22148758	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.43	4.5 µF	0.24 A
1 x 40 W	T12c	0.415 A	EC 36 B501K	22148758	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.43	4.5 µF	0.24 A
1 x 36 W	T8	0.430 A	EC 36 B501K	22148758	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.43	4.5 µF	0.22 A
1 x 38 W	T8	0.430 A	EC 36 B501K	22148758	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.45	4.5 µF	0.22 A
1 x 38 W	TC-DD	0.430 A	EC 36 B501K	22148758	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.45	4.5 µF	0.22 A
1 x 36 W	TC-L	0.430 A	EC 36 B501K	22148758	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.44	4.5 µF	0.22 A
2 x 18 W	T8	0.370 A	EC 36 B501K	22148758	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.45	4.5 µF	0.22 A
2 x 18 W	TC-L	0.370 A	EC 36 B501K	22148758	191 mm	150.0 – 184.0 mm	90 mm	30 K	0.46	4.5 µF	0.20 A



**EC 4 – 26 W, push-in terminal**

240 V 50 Hz

**Product description**

- Magnetic chokes for fluorescent lamps
  - Nominal life time 100,000 hours at  $t_w = 130\text{ °C}$
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

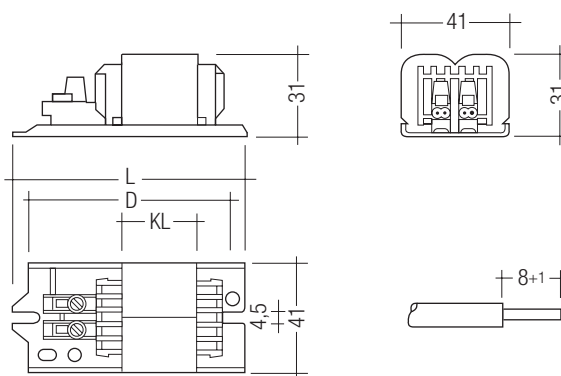
**Technical data**

Rated voltage	240 V, 50 Hz
Max. winding temperature $t_w$	130 °C
Push-in terminal	0.5 – 1.5 mm <sup>2</sup> for rigid wires



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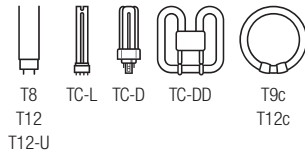
**Ordering data**

Type	Article number	Packaging	Packaging, pallet	Weight per piece
<b>Energy Efficiency Index EEI = B2</b>				
EC 8 C102K 240/50 027A084	22148939	5 pieces strapped	2,200 pieces	0.30 kg
EC 09 C102K 240/50 027A084	22149307	5 pieces strapped	2,200 pieces	0.30 kg
EC 13 C102K 240/50 027A084	20821682	5 pieces strapped	2,200 pieces	0.33 kg
EC 16 C102K 240/50 027A084	22115480	5 pieces strapped	2,200 pieces	0.30 kg
EC 18 TCD C102K 240/50 027A084	22149235	5 pieces strapped	2,200 pieces	0.30 kg
EC 26 LC102K 240/50 054A110	20889280	5 pieces strapped	1,400 pieces	0.53 kg
<b>Energy Efficiency Index EEI = B1</b>				
EC 09 B27 240/50 027A084	20821660	5 pieces strapped	2,200 pieces	0.30 kg
EC 18 B27 240/50 027A084	20821720	5 pieces strapped	2,200 pieces	0.30 kg



Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Length L	Hole spacing D	Core length KL	$\Delta T$	$\lambda$	Compensation, parallel ( $\cos \varphi > 0.9$ )	
										Capacitor $\pm 10\%$ 250 V	Mains current
<b>Energy Efficiency Index EEI = B2</b>											
1 x 4 W	T5	0.170 A	EC 8 C102K	22148939	84.5 mm	74 – 80 mm	27 mm	55 K	0.25	2.0 $\mu$ F	0.04 A
1 x 6 W	T5	0.160 A	EC 8 C102K	22148939	84.5 mm	74 – 80 mm	27 mm	45 K	0.28	2.0 $\mu$ F	0.05 A
1 x 8 W	T5	0.145 A	EC 8 C102K	22148939	84.5 mm	74 – 80 mm	27 mm	45 K	0.38	2.0 $\mu$ F	0.06 A
2 x 6 W	T5	0.160 A	EC 8 C102K	22148939	84.5 mm	74 – 80 mm	27 mm	40 K	0.44	2.0 $\mu$ F	0.05 A
2 x 4 W	T5	0.170 A	EC 8 C102K	22148939	84.5 mm	74 – 80 mm	27 mm	45 K	0.34	2.0 $\mu$ F	0.05 A
1 x 5 W	TC-S	0.180 A	EC 09 C102K	22149307	84.5 mm	74 – 80 mm	27 mm	60 K	0.28	2.0 $\mu$ F	0.05 A
1 x 7 W	TC-S	0.175 A	EC 09 C102K	22149307	84.5 mm	74 – 80 mm	27 mm	55 K	0.31	2.0 $\mu$ F	0.05 A
1 x 9 W	TC-S	0.170 A	EC 09 C102K	22149307	84.5 mm	74 – 80 mm	27 mm	50 K	0.36	2.0 $\mu$ F	0.06 A
1 x 11 W	TC-S	0.155 A	EC 09 C102K	22149307	84.5 mm	74 – 80 mm	27 mm	40 K	0.44	2.0 $\mu$ F	0.07 A
1 x 13 W	T5	0.165 A	EC 13 C102K	20821682	84.5 mm	74 – 80 mm	27 mm	40 K	0.45	2.0 $\mu$ F	0.07 A
1 x 10 W	T8	0.170 A	EC 13 C102K	20821682	84.5 mm	74 – 80 mm	27 mm	40 K	0.37	2.0 $\mu$ F	0.07 A
1 x 10 W	TC-D	0.180 A	EC 13 C102K	20821682	84.5 mm	74 – 80 mm	27 mm	50 K	0.36	2.0 $\mu$ F	0.07 A
1 x 13 W	TC-D	0.165 A	EC 13 C102K	20821682	84.5 mm	74 – 80 mm	27 mm	45 K	0.45	2.0 $\mu$ F	0.08 A
1 x 10 W	TC-DD	0.180 A	EC 13 C102K	20821682	84.5 mm	74 – 80 mm	27 mm	45 K	0.36	2.0 $\mu$ F	0.07 A
2 x 8 W	T5	0.145 A	EC 13 C102K	20821682	84.5 mm	74 – 80 mm	27 mm	30 K	0.49	2.0 $\mu$ F	0.09 A
2 x 7 W	TC-S	0.175 A	EC 13 C102K	20821682	84.5 mm	74 – 80 mm	27 mm	40 K	0.45	2.0 $\mu$ F	0.08 A
2 x 9 W	TC-S	0.170 A	EC 13 C102K	20821682	84.5 mm	74 – 80 mm	27 mm	40 K	0.52	2.0 $\mu$ F	0.08 A
1 x 16 W	T8	0.200 A	EC 16 C102K	22115480	84.5 mm	74 – 80 mm	27 mm	55 K	0.46	2.0 $\mu$ F	0.09 A
1 x 16 W	TC-DD	0.195 A	EC 16 C102K	22115480	84.5 mm	74 – 80 mm	27 mm	55 K	0.46	2.0 $\mu$ F	0.09 A
1 x 18 W	TC-D	0.220 A	EC 18 TCD C102K	22149235	84.5 mm	74 – 80 mm	27 mm	55 K	0.46	2.0 $\mu$ F	0.10 A
1 x 26 W	TC-D	0.325 A	EC 26 LC102K	20889280	110.0 mm	97 – 105 mm	54 mm	50 K	0.42	3.5 $\mu$ F	0.14 A
1 x 24 W	TC-L	0.345 A	EC 26 LC102K	20889280	110.0 mm	97 – 105 mm	54 mm	50 K	0.39	4.0 $\mu$ F	0.13 A
<b>Energy Efficiency Index EEI = B1</b>											
1 x 5 W	TC-S	0.180 A	EC 09 B27	20821660	84.5 mm	74 – 80 mm	27 mm	50 K	0.25	2.0 $\mu$ F	0.05 A
1 x 7 W	TC-S	0.175 A	EC 09 B27	20821660	84.5 mm	74 – 80 mm	27 mm	45 K	0.29	2.0 $\mu$ F	0.05 A
1 x 9 W	TC-S	0.170 A	EC 09 B27	20821660	84.5 mm	74 – 80 mm	27 mm	40 K	0.34	2.0 $\mu$ F	0.06 A
1 x 11 W	TC-S	0.155 A	EC 09 B27	20821660	84.5 mm	74 – 80 mm	27 mm	40 K	0.39	2.0 $\mu$ F	0.07 A
1 x 18 W	TC-D	0.220 A	EC 18 B27	20821720	84.5 mm	74 – 80 mm	27 mm	60 K	0.44	2.0 $\mu$ F	0.10 A



EC 15 – 75 W, ConCut / IDC terminal  
240 V 50 Hz

**Product description**

- Magnetic chokes for fluorescent lamps
  - Nominal life time 100,000 hours at  $t_w = 130\text{ °C}$
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

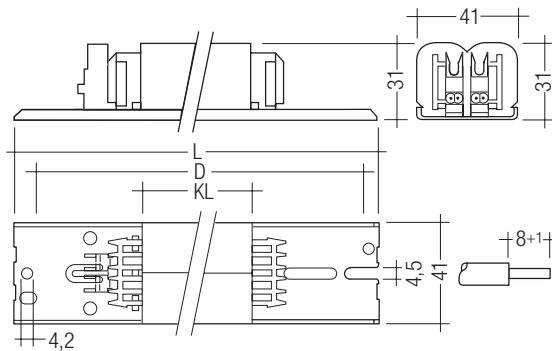
**Technical data**

Rated voltage	240 V, 50 Hz
Max. winding temperature $t_w$	130 °C
ConCut (insulation displacement connection)	0.5 – 1.5 mm <sup>2</sup>



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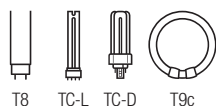


**Ordering data**

Type	Article number	Packaging	Packaging, pallet	Weight per piece
<b>Energy Efficiency Index EEI = B2</b>				
EC 15 C502K 240/50 050A151	22149234	5 pieces strapped	1,400 pieces	0.50 kg
EC 2x18 OC502K 240/50 040A151	22175106	5 pieces strapped	1,400 pieces	0.43 kg
EC 18 C502K 240/50 050A151	22175070	5 pieces strapped	1,400 pieces	0.51 kg
EC 18 LC502K 240/50 054A151	22148708	5 pieces strapped	1,400 pieces	0.54 kg
EC 30 C502K 240/50 050A151	22149241	5 pieces strapped	1,400 pieces	0.50 kg
EC 36 C502K 240/50 050A151	22175071	5 pieces strapped	1,400 pieces	0.52 kg
EC 36 LC502K 240/50 054A151	22148709	5 pieces strapped	1,400 pieces	0.55 kg
EC 58 C502K 240/50 090A191	22149260	5 pieces strapped	1,000 pieces	0.87 kg
EC 70 C502K 240/50 090A191D	22148773	5 pieces strapped	1,000 pieces	0.88 kg
<b>Energy Efficiency Index EEI = B1</b>				
EC 18 TCD LB112K 240/50 050A110 IDC	22179254	5 pieces strapped	1,600 pieces	0.54 kg
EC 18 B502K 240/50 090A191	22148765	5 pieces strapped	1,000 pieces	0.85 kg
EC 18 TCD LB502K 240/50 050A151	22148766	5 pieces strapped	1,400 pieces	0.50 kg
EC 21 B502K 240/50 050A151	22148767	5 pieces strapped	1,400 pieces	0.50 kg
EC 36 B502K 240/50 090A191	22148771	5 pieces strapped	1,000 pieces	0.85 kg
EC 70 B502K 240/50 100A191D	22148772	5 pieces strapped	1,000 pieces	0.97 kg

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Length L	Hole spacing D	Core length KL	Δ T	λ	Compensation, parallel (cos φ > 0.9)		
										Capacitor ± 10 % 250 V	Mains current	
<b>Energy Efficiency Index EEI = B2</b>												
1 x 15 W	T8	0.310 A	EC 15 C502K	22149234	151 mm	110 – 144 mm	50 mm	55 K	0.31	4.0 μF	0.09 A	
2 x 18 W	T8	0.370 A	EC 2x18 OC502K	22175106	151 mm	110 – 144 mm	40 mm	60 K	0.51	4.0 μF	0.20 A	
1 x 18 W	T8	0.370 A	EC 18 C502K	22175070	151 mm	110 – 144 mm	50 mm	55 K	0.32	4.0 μF	0.12 A	
1 x 18 W	T8	0.370 A	EC 18 LC502K	22148708	151 mm	110 – 144 mm	54 mm	50 K	0.30	4.0 μF	0.12 A	
1 x 23 W	T8	0.290 A	EC 18 LC502K	22148708	151 mm	110 – 144 mm	54 mm	35 K	0.40	3.0 μF	0.12 A	
1 x 26 W	TC-D	0.325 A	EC 18 LC502K	22148708	151 mm	110 – 144 mm	54 mm	40 K	0.42	3.5 μF	0.13 A	
1 x 28 W	TC-DD	0.320 A	EC 18 LC502K	22148708	151 mm	110 – 144 mm	54 mm	40 K	0.46	3.5 μF	0.14 A	
1 x 18 W	TC-L	0.370 A	EC 18 LC502K	22148708	151 mm	110 – 144 mm	54 mm	50 K	0.30	4.0 μF	0.11 A	
1 x 24 W	TC-L	0.345 A	EC 18 LC502K	22148708	151 mm	110 – 144 mm	54 mm	45 K	0.39	3.5 μF	0.13 A	
1 x 22 W	T9c	0.400 A	EC 30 C502K	22149241	151 mm	110 – 144 mm	50 mm	75 K	0.32	4.0 μF	0.16 A	
2 x 15 W	T8	0.310 A	EC 30 C502K	22149241	151 mm	110 – 144 mm	50 mm	55 K	0.52	4.0 μF	0.17 A	
1 x 36 W	T8	0.430 A	EC 36 C502K	22175071	151 mm	110 – 144 mm	50 mm	55 K	0.46	4.0 μF	0.22 A	
2 x 18 W	T8	0.370 A	EC 36 C502K	22175071	151 mm	110 – 144 mm	50 mm	55 K	0.48	4.0 μF	0.22 A	
1 x 40 W	T12-U	0.430 A	EC 36 LC502K	22148709	151 mm	110 – 144 mm	54 mm	55 K	0.49	4.0 μF	0.22 A	
1 x 40 W	T12c	0.415 A	EC 36 LC502K	22148709	151 mm	110 – 144 mm	54 mm	50 K	0.49	4.0 μF	0.23 A	
1 x 36 W	T8	0.430 A	EC 36 LC502K	22148709	151 mm	110 – 144 mm	54 mm	55 K	0.44	4.0 μF	0.22 A	
1 x 38 W	T8	0.430 A	EC 36 LC502K	22148709	151 mm	110 – 144 mm	54 mm	55 K	0.47	4.0 μF	0.22 A	
1 x 38 W	TC-DD	0.430 A	EC 36 LC502K	22148709	151 mm	110 – 144 mm	54 mm	55 K	0.46	4.0 μF	0.22 A	
1 x 36 W	TC-L	0.430 A	EC 36 LC502K	22148709	151 mm	110 – 144 mm	54 mm	55 K	0.44	4.0 μF	0.22 A	
2 x 18 W	T8	0.370 A	EC 36 LC502K	22148709	151 mm	110 – 144 mm	54 mm	50 K	0.49	4.0 μF	0.10 A	
2 x 18 W	TC-L	0.370 A	EC 36 LC502K	22148709	151 mm	110 – 144 mm	54 mm	50 K	0.49	4.0 μF	0.21 A	
1 x 65 W	T12-U	0.670 A	EC 58 C502K	22149260	191 mm	150 – 184 mm	90 mm	50 K	0.46	6.0 μF	0.30 A	
1 x 58 W	T8	0.670 A	EC 58 C502K	22149260	191 mm	150 – 184 mm	90 mm	50 K	0.46	6.0 μF	0.30 A	
1 x 75 W	T12	0.670 A	EC 70 C502K	22148773	191 mm	150 – 184 mm	90 mm	45 K	0.51	6.0 μF	0.38 A	
1 x 70 W	T8	0.700 A	EC 70 C502K	22148773	191 mm	150 – 184 mm	90 mm	50 K	0.55	6.0 μF	0.38 A	
<b>Energy Efficiency Index EEI = B1</b>												
1 x 18 W	TC-D	0.220 A	EC 18 TCD LB112K	22179254	110 mm	97 – 105 mm	50 mm	35 K	0.41	3.5 μF	0.14 A	
1 x 18 W	T8	0.370 A	EC 18 B502K	22148765	191 mm	150 – 184 mm	90 mm	30 K	0.29	4.0 μF	0.12 A	
1 x 23 W	T8	0.290 A	EC 18 B502K	22148765	191 mm	150 – 184 mm	90 mm	25 K	0.38	3.0 μF	0.13 A	
1 x 26 W	TC-D	0.325 A	EC 18 B502K	22148765	191 mm	150 – 184 mm	90 mm	30 K	0.40	3.5 μF	0.13 A	
1 x 28 W	TC-DD	0.320 A	EC 18 B502K	22148765	191 mm	150 – 184 mm	90 mm	25 K	0.44	3.5 μF	0.14 A	
1 x 18 W	TC-L	0.370 A	EC 18 B502K	22148765	191 mm	150 – 184 mm	90 mm	30 K	0.29	4.0 μF	0.10 A	
1 x 24 W	TC-L	0.345 A	EC 18 B502K	22148765	191 mm	150 – 184 mm	90 mm	30 K	0.38	3.5 μF	0.13 A	
1 x 18 W	TC-D	0.220 A	EC 18 TCD LB502K	22148766	151 mm	110 – 144 mm	50 mm	35 K	0.41	2.0 μF	0.08 A	
1 x 21 W	TC-DD	0.260 A	EC 21 B502K	22148767	151 mm	110 – 144 mm	50 mm	35 K	0.41	3.0 μF	0.11 A	
1 x 40 W	T12-U	0.430 A	EC 36 B502K	22148771	191 mm	150 – 184 mm	90 mm	35 K	0.45	4.0 μF	0.22 A	
1 x 40 W	T12c	0.415 A	EC 36 B502K	22148771	191 mm	150 – 184 mm	90 mm	30 K	0.46	4.0 μF	0.22 A	
1 x 36 W	T8	0.430 A	EC 36 B502K	22148771	191 mm	150 – 184 mm	90 mm	35 K	0.41	4.0 μF	0.20 A	
1 x 38 W	T8	0.430 A	EC 36 B502K	22148771	191 mm	150 – 184 mm	90 mm	35 K	0.44	4.0 μF	0.21 A	
1 x 38 W	TC-DD	0.430 A	EC 36 B502K	22148771	191 mm	150 – 184 mm	90 mm	30 K	0.42	4.0 μF	0.19 A	
1 x 36 W	TC-L	0.430 A	EC 36 B502K	22148771	191 mm	150 – 184 mm	90 mm	35 K	0.42	4.0 μF	0.18 A	
2 x 18 W	T8	0.370 A	EC 36 B502K	22148771	191 mm	150 – 184 mm	90 mm	30 K	0.45	4.0 μF	0.19 A	
1 x 75 W	T12	0.670 A	EC 70 B502K	22148772	191 mm	150 – 184 mm	100 mm	45 K	0.56	6.0 μF	0.38 A	
1 x 70 W	T8	0.700 A	EC 70 B502K	22148772	191 mm	150 – 184 mm	100 mm	45 K	0.50	6.0 μF	0.36 A	



**ETAWATT 18 – 58 W**  
230 V 50 Hz

### Product description

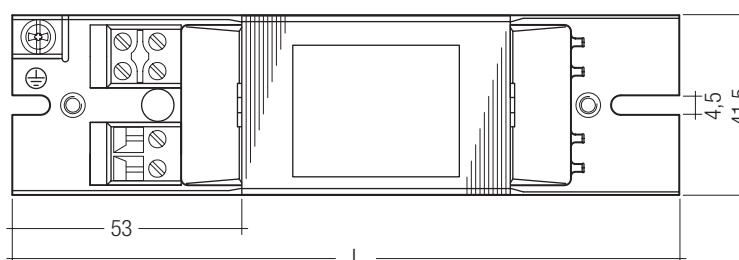
- Magnetic chokes for fluorescent lamps
  - Nominal life time 100,000 hours at  $t_w = 130\text{ °C}$
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

### Technical data

Rated voltage	230 V, 50 Hz
Max. winding temperature $t_w$	130 °C
Push-in terminal	0.5 – 1.5 mm <sup>2</sup> for rigid wires



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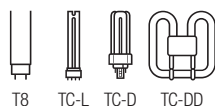


### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per piece
<b>Energy Efficiency Index EEI = B2</b>				
ETAWATT 18 NG301 IND 230V/50	86454136	20 pieces	800 pieces	0.76 kg
ETAWATT 30 NG301 IND 230V/50	86454142	20 pieces	800 pieces	0.76 kg
ETAWATT 36 NG301 IND 230V/50	86454158	20 pieces	800 pieces	0.75 kg
ETAWATT 58 NG301 IND 230V/50	86454161	20 pieces	800 pieces	1.20 kg

### Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Length L	Hole spacing D	$\Delta T$	$\lambda$	Compensation, parallel ( $\cos \varphi > 0.9$ )	
									Capacitor $\pm 10\%$ 250 V	Mains current
<b>Energy Efficiency Index EEI = B2</b>										
1 x 18 W	T8	0.370 A	ETAWATT 18 NG301	86454136	170 mm	150 – 159 mm	45 K	0.32	4.2 $\mu\text{F}$	0.13 A
1 x 18 W	TC-L	0.370 A	ETAWATT 18 NG301	86454136	170 mm	150 – 159 mm	45 K	0.31	4.2 $\mu\text{F}$	0.13 A
1 x 23 W	T8	0.290 A	ETAWATT 18 NG301	86454136	170 mm	150 – 159 mm	45 K	0.42	4.2 $\mu\text{F}$	0.13 A
1 x 24 W	TC-L	0.345 A	ETAWATT 18 NG301	86454136	170 mm	150 – 159 mm	45 K	0.40	4.2 $\mu\text{F}$	0.13 A
1 x 26 W	TC-D	0.325 A	ETAWATT 18 NG301	86454136	170 mm	150 – 159 mm	45 K	0.43	4.2 $\mu\text{F}$	0.13 A
1 x 30 W	T8	0.365 A	ETAWATT 30 NG301	86454142	170 mm	150 – 159 mm	50 K	0.48	3.6 $\mu\text{F}$	0.18 A
1 x 22 W	T9c	0.400 A	ETAWATT 30 NG301	86454142	170 mm	150 – 159 mm	50 K	0.33	3.6 $\mu\text{F}$	0.18 A
2 x 15 W	T8	0.310 A	ETAWATT 30 NG301	86454142	170 mm	150 – 159 mm	50 K	0.52	3.6 $\mu\text{F}$	0.18 A
1 x 36 W	T8	0.430 A	ETAWATT 36 NG301	86454158	170 mm	150 – 159 mm	50 K	0.47	4.3 $\mu\text{F}$	0.21 A
1 x 36 W	TC-L	0.430 A	ETAWATT 36 NG301	86454158	170 mm	150 – 159 mm	50 K	0.45	4.3 $\mu\text{F}$	0.21 A
1 x 38 W	T8	0.430 A	ETAWATT 36 NG301	86454158	170 mm	150 – 159 mm	50 K	0.48	4.3 $\mu\text{F}$	0.21 A
2 x 18 W	T8	0.370 A	ETAWATT 36 NG301	86454158	170 mm	150 – 159 mm	50 K	0.49	4.3 $\mu\text{F}$	0.21 A
1 x 58 W	T8	0.670 A	ETAWATT 58 NG301	86454161	235 mm	220 – 229 mm	50 K	0.48	4.3 $\mu\text{F}$	0.33 A



**EC 18 – 28 W**

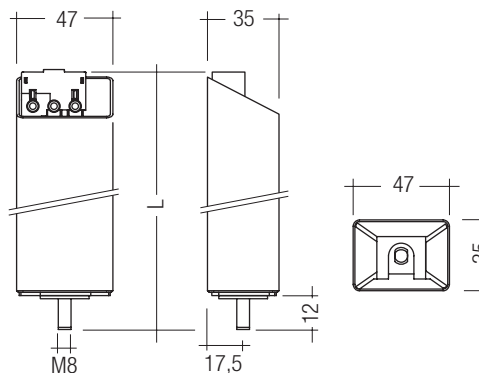
230 V 50 Hz

**Product description**

- Magnetic chokes for fluorescent lamps
  - Encapsulated for protection class II applications
  - Double insulated
  - Irreversible thermal cutout
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Rated voltage	230 V, 50 Hz
Max. winding temperature tw	130 °C
Push-in terminal	0.5 – 1.5 mm <sup>2</sup> for rigid wires
Trigger value, thermal protection	150 °C



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**Ordering data**

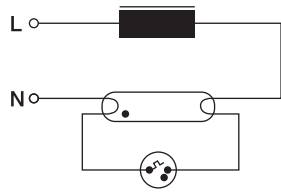
Type	Article number	Packaging, carton	Packaging, pallet	Weight per piece
<b>Energy Efficiency Index EEI = B2</b>				
EC 18 LC201B 230/50 ZIMP113	22149220	26 pieces	936 pieces	0.55 kg

**Specific technical data**

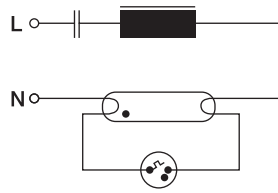
Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Length L	Δ T	λ	Compensation, parallel (cos φ > 0.9)	
								Capacitor ± 10 % 250 V	Mains current
<b>Energy Efficiency Index EEI = B2</b>									
1 x 18 W	T8	0.370 A	EC 18 LC201B	22149220	113 mm	65 K	0.32	4.5 μF	0.11 A
1 x 23 W	T8	0.290 A	EC 18 LC201B	22149220	113 mm	50 K	0.42	3.5 μF	0.14 A
1 x 26 W	TC-D	0.325 A	EC 18 LC201B	22149220	113 mm	55 K	0.43	3.5 μF	0.14 A
1 x 28 W	TC-DD	0.320 A	EC 18 LC201B	22149220	113 mm	55 K	0.48	3.5 μF	0.15 A
1 x 18 W	TC-L	0.370 A	EC 18 LC201B	22149220	113 mm	65 K	0.31	4.5 μF	0.11 A
1 x 24 W	TC-L	0.345 A	EC 18 LC201B	22149220	113 mm	60 K	0.40	4.0 μF	0.14 A

Linear lamps

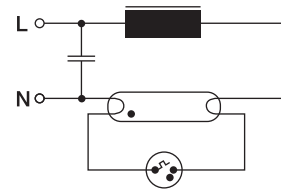
Single lamp uncompensated



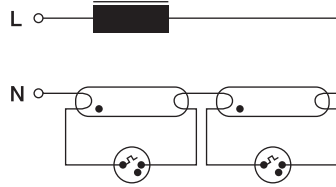
Single lamp series compensated



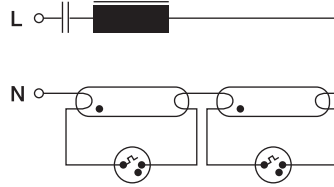
Single lamp parallel compensated



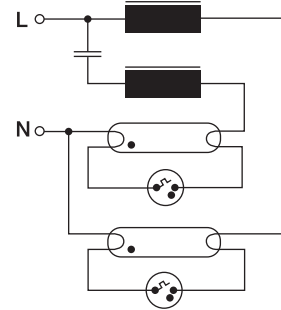
Twin series lamps uncompensated



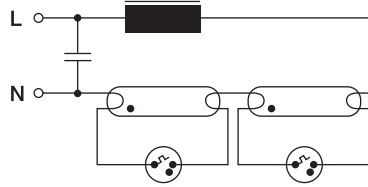
Twin series lamps series compensated



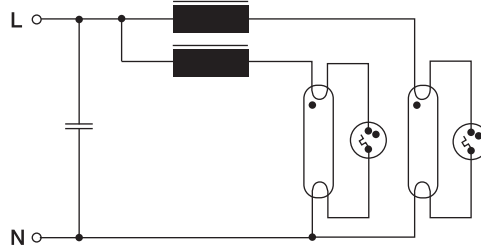
Twin lamp lead / lag



Twin series lamps parallel compensated

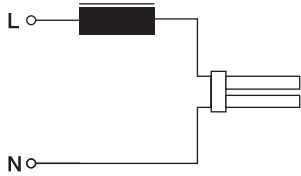


Twin lamp parallel compensated; 2 x value of parallel capacitor (single circuit), 2x18 W T8 = 8 µF (250 V)

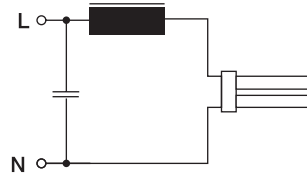


Compact lamps

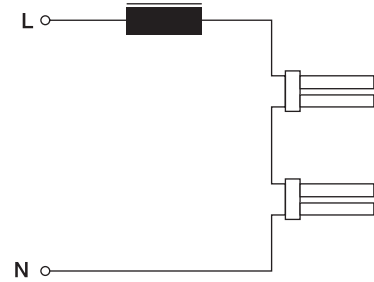
Single 2-pin lamp uncompensated



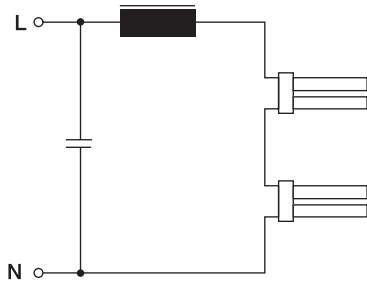
Single 2-pin lamp parallel compensated



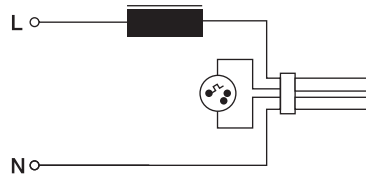
Twin series 2-pin lamps uncompensated



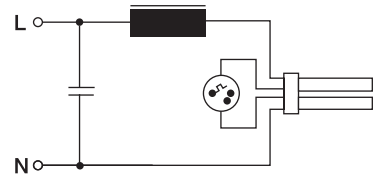
Twin series 2-pin lamps parallel compensated



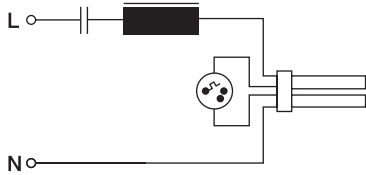
Single 4-pin lamp uncompensated



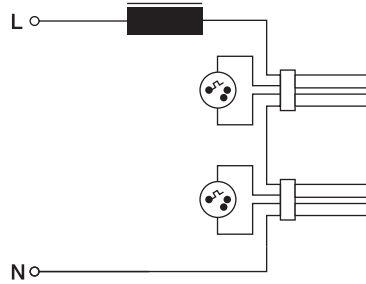
Single 4-pin lamp parallel compensated



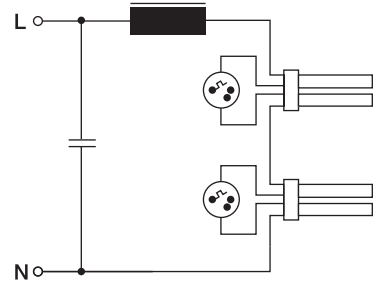
Single 4-pin lamp series compensated



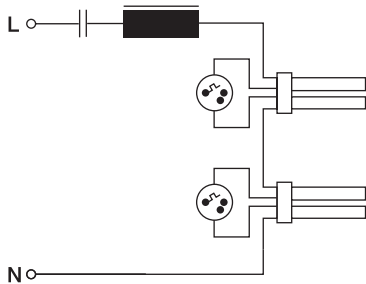
Twin series 4-pin lamps uncompensated



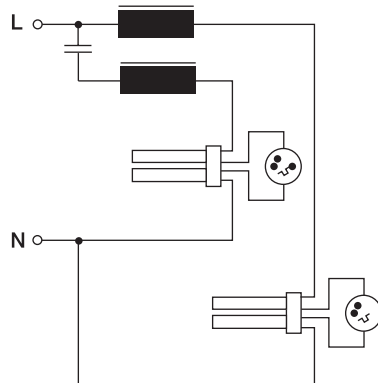
Twin series 4-pin lamps parallel compensated



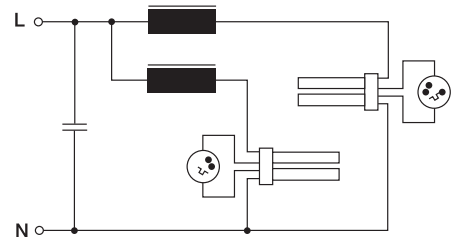
Twin series 4-pin lamps series compensated



Twin 4-pin lamps lead / lag



Twin 4-pin lamps parallel compensated







## Overview

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Product / function matrix	Page 142
Lamp matrix – Metal halide lamps	Page 144
Lamp matrix – High-pressure sodium lamps	Page 149

## Product information

Electronic ballasts for HID	Page 151
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## Indoor HI

### PCI PRO built-in applications

PCI PRO C011 Single	Page 154
PCI MINI Q211 Single	Page 155
PCI B011 Single	Page 156
PCI B011 Twin	Page 157
PCI FOX B011	Page 158

### PCI PRO remote applications

PCI PRO C021 Single	Page 159
PCI PRO C521 Single ST	Page 160
PCI PRO C521 Single GST	Page 161
PCI MINI Q221 Single	Page 162
PCI B021 Twin	Page 163
PCI B521 Twin ST	Page 164

### PCI TOP built-in and remote applications

PCI TOP C011	Page 165
PCI TOP C021	Page 166

### PCI TEC built-in applications

PCI TEC C011	Page 167
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## Outdoor HI / HS

### Built-in applications

PCIS, PCI, PCS outdoor FOX B011	Page 168
PCIS, PCI, PCS outdoor DIM B011	Page 169

## Wiring diagrams and installation examples Page 170



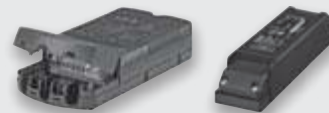
## Product overview



### PCI PRO

#### Built-in and remote applications

Light sources and wattages: HI, 20 – 150 W



#### Built-in: Unbeatably flexible, durable and convenient

- Outstanding thermal behaviour
- Multi-lamp management: two wattages on one device
- Successful compact design
- The widest portfolio of wattages and versions

#### Remote: Maximum ease of installation and very long life time

- Simple mains through-wiring
- No tools required for installing the cable clamps and terminal cover
- Up to 5 m lamp cable length
- Versions with ready-made ST or GST lamp cables



### PCI TOP

#### Built-in and remote applications

Light sources and wattages: HI, 35 – 70 W

#### Optimised to get essential tasks done

- Long life
- Wide operating temperature range
- Reliable lamp operation
- Excellent quality of light



### PCI TEC

#### Built-in applications

Light sources and wattages: HI, 35 + 70 W

#### Efficient electronics made simple

- Operation of ceramic and quartz metal halide lamps
- Flicker-free light
- Constant lamp output
- Safe shutdown of faulty lamps



### PCIS, PCI, PCS outdoor FOX + DIM

Light sources and wattages: HI + HS, 45 – 150 W

#### For outdoor applications: Robust, durable and energy-efficient

- Special filling compound protects against moisture, dust and vibration
- Greater protection against mains transients
- PCIS outdoor DIM: Energy savings by reducing the level of light during the quieter times of night
- PCIS outdoor DIM: Can be controlled via the mains control line (stepDIM) or via digital DALI/DSI signals

Product / function matrix



Benefits	Product characteristics	Indoor	
		PCI PRO	
		PCI PRO	PCI MINI
High efficiency	CELMA energy efficiency class	A2	A2
	Dimming via DALI/DSI or stepDIM		
High level of safety	Overtemperature protection, safety shutdown of faulty lamps and short-circuit detection	•	•
	Enhanced protection against mains transients, dust, vibration and moisture		
Competence in lamp operation	Lamp types supported	Ceramic/quartz metal halide lamps	Ceramic/quartz metal halide lamps
	Output range (wattages)	20 – 150 W	20 W
	Permissible ignition and greatly reduced restrike time	•	•
	Flicker-free light	•	•
	Colour stability thanks to constant mains-independent lamp output	•	•
	2 lamps can be operated with one device		
High degree of flexibility	Suitable for movable luminaires with plugs	•	•
	Colour-coded terminals	•	•
	Cable clamp for separate installation	PCI PRO Cx21	PCI MINI Q221
	Toolless strain relief	PCI PRO Cx21	
	Number of independent strain relief channels	3	2
	Version with lamp cable	PCI PRO C521	
	Option of mains through-looping	PCI PRO Cx21	PCI MINI Q221
	Lamp cable length	up to 5 m	1.5 m
	Connecting cable cross-section	up to 2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
	Option of DALI/DSI control		
High quality	Typical lifespan	50,000 h	50,000 h
	Ambient temperature range	-25 °C to +70 °C <sup>®</sup>	-20 °C to +50 °C
	Approval marks		
	Guarantee	5 years	5 years

<sup>®</sup> depending on the model



Indoor				Outdoor
PCI PRO		PCI TOP	PCI TEC	PCIS, PCI, PCS outdoor
PCI B	PCI FOX			
A2	A2	A2	A2	A2
				PCIS outdoor DIM
•	•	•	•	•
				•
Ceramic/quartz metal halide lamps	Ceramic/quartz metal halide lamps	Ceramic/quartz metal halide lamps	Ceramic/quartz metal halide lamps	Ceramic/quartz metal halide lamps and sodium vapour lamps
35 + 70 W	20 – 150 W	35 – 70 W	35 + 70 W	45 – 150 W
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•				
•	•	•	•	•
•	•	•	•	•
PCI Bx21		PCI TOP C021		
PCI Bx21		PCI TOP C021		
2		2		
PCI B521				
PCI Bx21				
up to 3 m	1.5 m	1.5 m	1.5 m	5 m
up to 2.5 mm <sup>2</sup>	up to 2.5 mm <sup>2</sup>	up to 2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	up to 2.5 mm <sup>2</sup>
	•			•
50,000 h	50,000 h	up to 40,000 h <sup>①</sup>	20,000 h	60,000 h
-25 °C to +50 °C <sup>①</sup>	-25 °C to +55 °C <sup>①</sup>	-20 °C to +60 °C <sup>①</sup>	-10 °C to +55 °C <sup>①</sup>	-25 °C to +60 °C <sup>①</sup>
5 years	5 years	5 years	3 years	5 years

## Lamp matrix – Metal halide lamps

Ballasts for high intensity discharge lamps Metal halide lamps (HI)						PCI PRO						Outdoor		
Wattage	Manufacturer	Description	Cap	Current A	Dimmability (in %) <sup>①</sup>	PCI PRO C	PCI MINI	PCI B	PCI FOX	PCI TOP	PCI TEC	PCIS	PCI	PCS
20 W	GE	CMH 20W T	G12	0.23		•	•		•					
		CMH 20W MR16	GX10	0.23		•	•		•					
		CMH 20W SuperMini	GU6.5	0.23		•	•		•					
		CMH 20W TC	G8.5	0.23		•			•					
		CMH 20W PAR30	E27	0.23		•	•		•					
	Osram	HCI-TC 20W	G8.5	0.23		•	•	•	•	•	•			
		HCI-TF 20W	GU6.5	0.23		•	•		•					
		HCI-R111 20W	GX8.5	0.23		•	•		•					
	Sylvania	Britespot ES50 20W	GX10	0.23		•			•					
		CMI-TC 20W Superball	G8.5	0.20		•			•					
		CMI-T Mini 20W	GU6.5	0.21		•			•					
	Philips	CDM-T 20W	G12	0.22		•			•					
		CDM-TC 20W	G8.5	0.22		•			•					
		CDM-R111 20W	GX8.5	0.22		•			•					
CDM-R Mini 20W		GX10	0.20		•			•						
22 W	Philips	CDM-TM 20W	PGJ5	0.22		•								
35 W	BLV	HIT-35 W	G8.5	0.43		•		•	•	•	•			
	GE	CMH 35W MR16	GX10	0.50		•		•	•	•	•			
		CMH 35W PAR	E27	0.50		•		•	•	•	•			
		CMH 35W T	G12	0.50		•		•	•	•	•			
		CMH 35W SuperMini	GU6.5	0.45		•		•	•	•	•			
		CMH 35W TC	G8.5	0.50		•		•	•	•	•			
	Iwasaki	MT35CE-W	G12	0.46		•		•	•	•	•			
		CM35P20	E27	0.46		•		•	•	•	•			
	Osram	HCI-E/P 35W	E27	0.53		•		•	•	•	•			
		HCI-PAR... 35W	E27	0.53		•		•	•	•	•			
		HCI-R111 35W	GX8.5	0.53		•		•	•	•	•			
		HCI-T 35W	G12	0.53		•		•	•	•	•			
		HCI-TC 35W	G8.5	0.53		•		•	•	•	•			
		HCI-TF 35W	GU6.5	0.53		•		•	•	•	•			
	Philips	CDM-R 35W	E27	0.53		•		•	•	•	•			
		CDM-R111 35W	GX8.5	0.53		•		•	•	•	•			
		CDM-R Mini 35W	GX10	0.53		•		•	•	•	•			
		CDM-T 35W	G12	0.53		•		•	•	•	•			
		CDM-T 35W ELITE	G12	0.47		•		•	•	•	•			
		CDM-TC 35W	G8.5	0.53		•		•	•	•	•			
CDM-TC 35W ELITE		G8.5	0.47		•		•	•	•	•				
CDM-TM 35W		GU6.5	0.44		•		•	•	•	•				
Radium	RCC-T 35W	G12	0.53		•		•	•	•	•				

The latest lamp matrix can be downloaded from internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

<sup>①</sup> Dimmability and minimum dimming value as a percentage of the lamp output according to the manufacturer.

## Lamp matrix – Metal halide lamps

Ballasts for high intensity discharge lamps Metal halide lamps (HI)						PCI PRO						Outdoor			
Wattage	Manufacturer	Description	Cap	Current A	Dimmability (in %) <sup>①</sup>	PCI PRO C	PCI MINI	PCI B	PCI FOX	PCI TOP	PCI TEC	PCS	PCI	PCS	
35 W	Sylvania	BriteSpot ES50 35W	GX10	0.53		•		•	•	•	•				
		BriteSpot ES111 35W	GX10	0.53		•		•	•	•	•				
		CMI-T 35W	G12	0.53											
		CMI-TC 35W	G8.5	0.53		•		•	•	•	•				
		CMI-T 35W Superball	G12	0.53		•		•	•	•	•				
		CMI-TC 35W Superball	G8.5	0.53		•		•	•	•	•				
	Venture	HIE 35/x/x	E27	0.53		•		•	•	•	•				
Yaming	CPS 35 4K	G12	0.53		•		•	•	•	•					
45 W	Philips	CPO-TW 45	PGZ12	0.65	• (85)			•	•						
	Sylvania	CMO-TW 45	PGZ12	0.65	• (85)			•	•						
50 W	GE	CMH 50 TT streetwise	E27	0.95	• (65)	•				•			•		
	Philips	CDM-T 50W ELITE	G12	0.59		•				•					
		CDM-TC 50W ELITE	G8.5	0.59		•				•					
		CDM-Rm 50W ELITE Mini	GX10	0.58		•				•					
60 W	Philips	CPO-TW 60W	PGZ12	0.65	• (75)								•		
	Sylvania	CMO-TW 60W	PGZ12	0.65	• (75)								•		
70 W	Aura	Crystal 70W	E27	0.98		•		•	•	•	•		•		
	BLV	C-HIT 70W	G12	1.00		•		•	•	•	•		•		
		HIE... 70W	Rx7s	1.00		•		•	•	•	•		•		
		HIE... 70W	E27	1.00		•		•	•	•	•		•		
		HIE... 70W	G12	1.00		•		•	•	•	•		•		
		HIE... 70W	G12	1.00		•		•	•	•	•		•		
	GE	ARC 70W	Rx7s	1.00		•		•	•	•	•		•		
		CMH 70W E	E27	0.98		•		•	•	•	•		•		
		CMH 70W PAR	E27	1.00		•		•	•	•	•		•		
		CMH 70W T ...	G12	1.00		•		•	•	•	•		•		
		CMH 70W T Mini	G8.5	1.00		•		•	•	•	•		•		
		CMH 70W TC	G8.5	1.00		•		•	•	•	•		•		
		CMH 70W TD ...	Rx7s	1.00		•		•	•	•	•		•		
		CMH 70W TT streetwise	E27	0.95	• (65)									•	
		CMH 70W TU	G12	1.00		•		•	•	•	•		•		
		CMH 70W Ultra Mini	G8.5	1.00		•		•	•	•	•		•		
	CMH 70W Ultra	G12	1.00		•		•	•	•	•		•			
	Iwasaki	MHT 70W Color Arc	G12	1.00		•		•	•	•	•		•		
	Osram	HCI-E/P 70W	E27	1.00		•		•	•	•	•		•		
		HCI-PAR30 70W	E27	1.00		•		•	•	•	•		•		
HCI-R111 70W		GX8.5	1.00		•		•	•	•	•		•			
HCI-T 70W		G12	1.00		•		•	•	•	•		•			
HCI-T 70W Shoplight		G12	1.00		•		•	•	•	•		•			
HCI-TC 70W		G8.5	1.00		•		•	•	•	•		•			
HCI-TS 70W	Rx7s	1.00		•		•	•	•	•		•				

The latest lamp matrix can be downloaded from internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

<sup>①</sup> Dimmability and minimum dimming value as a percentage of the lamp output according to the manufacturer.

## Lamp matrix – Metal halide lamps

Ballasts for high intensity discharge lamps Metal halide lamps (HI)						PCI PRO						Outdoor			
Wattage	Manufacturer	Description	Cap	Current A	Dimmability (in %) <sup>①</sup>	PCI PRO C	PCI MINI	PCI B	PCI FOX	PCI TOP	PCI TEC	PCIS	PCI	PCS	
70 W	Osram	HCI-TT 70W	E27	0.85		•		•	•	•	•		•		
		HQI-E 70W	E27	1.00		•		•	•	•	•		•		
		HQI-T 70W	G12	1.00		•		•	•	•	•		•		
		HQI-TS 70W	Rx7s	1.00		•		•	•	•	•		•		
	Phillips	CDM-R 70W	E27	1.00		•		•	•	•	•		•		
		CDM-R111 70W	GX8.5	1.00		•		•	•	•	•		•		
		CDM-T 70W	G12	1.00		•		•	•	•	•		•		
		CDM-T 70W ELITE	G12	1.00		•		•	•	•	•		•		
		CDM-TC 70W	G8.5	1.00		•		•	•	•	•		•		
		CDM-TC 70W ELITE	G8.5	1.00		•		•	•	•	•		•		
		CDM-TC 70W ELITE Light Boost	G8.5	1.00	• (50)	•		•	•	•	•		•		
		CDM-TD 70W	Rx7s	1.00		•		•	•	•	•		•		
		CDM-TP 70W	PG12-2	1.00		•		•	•	•	•		•		
		CDM-ET 70W	E27	1.00										•	
		CDM-TT 70W	E27	1.00										•	
		CDO-ET 70W	E27	1.00	• (60)										•
		CDO-TT 70W	E27	1.00	• (60)										•
		MHN-T 70W	PG12-2	1.00		•		•	•	•	•	•		•	
		MHN-TD 70W	Rx7s	1.00		•		•	•	•	•	•		•	
		MHW-TD 70W	Rx7s	1.00		•		•	•	•	•	•		•	
	Radium	HRI-E 70W	E27	1.00		•		•	•	•	•		•		
		HRI-T 70W	G12	1.00		•		•	•	•	•		•		
		HRI-TS 70W	Rx7s	1.00		•		•	•	•	•		•		
		RCC-T 70W	G12	1.00		•		•	•	•	•		•		
		RCC-TS 70W	Rx7s	1.00		•		•	•	•	•		•		
	Sylvania	Britespot ESD111 70W	GX10	1.00		•		•	•	•	•		•		
		CMI-T 70W / WDL	G12	1.00		•		•	•	•	•		•		
		CMI-T 70W / NDL	G12	1.00		•		•	•	•	•		•		
		CMI-TD 70W Superball	Rx7s	1.00		•		•	•	•	•		•		
		CMI-T 70W Superball	G12	1.00		•		•	•	•	•		•		
CMI-TC 70W Superball		G8.5	1.00		•		•	•	•	•		•			
HSI-T 70W		G12	1.00		•		•	•	•	•		•			
HSI-TD 70W		Rx7s	1.00		•		•	•	•	•		•			
Venture	HIE 70W/C/U/LU/4K	E27	1.00		•		•	•	•	•		•	•		
	HIE 70W/U/LU/4K	E27	1.00		•		•	•	•	•		•	•		
	HIE 70/xx	E27	1.00	• (50)	•		•	•	•	•		•	•		
	CM-PLUS T 70W	G12	0.98		•		•	•	•	•	•	•			
90 W	Philips	CPO-TW 90W	PGZ12	0.97	• (60)								•		
	Sylvania	CMO-TW 90W	PGZ12	0.97	• (60)								•		

The latest lamp matrix can be downloaded from internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

<sup>①</sup> Dimmability and minimum dimming value as a percentage of the lamp output according to the manufacturer.



## Lamp matrix – Metal halide lamps

Ballasts for high intensity discharge lamps Metal halide lamps (HI)						PCI PRO						Outdoor			
Wattage	Manufacturer	Description	Cap	Current A	Dimmability (in %) <sup>①</sup>	PCI PRO C	PCI MINI	PCI B	PCI FOX	PCI TOP	PCI TEC	PCS	PCI	PCS	
100 W	BLV	MHR 100W	E27	1.20		●						●			
		GE	CMH 100W PAR	E27	1.20		●						●		
	GE	CMH 100/C/U/830	E27	1.20		●							●		
		CMH 100W TT streetwise	E40	1.16	● (65)								●		
		MXR 100W	E27	1.20		●							●		
	Osram	HCI-E/P 100W	E27	1.20		●							●		
		HQI-E 100W	E27	1.20		●							●		
	Philips	CDO-ET 100W	E27	1.20	● (60)	●							●		
		CDO-TT 100W	E27	1.20	● (60)	●							●		
		CDM-T 100W ELITE	G12	1.20		●							●		
	Radium	HRI-E 100W ...	E27	1.20		●							●		
	Sylvania	HSI-MP 100W	E27	1.20		●							●		
		HSI-TD 100W	Rx7s	1.20		●							●		
		MP 100W/CL	E27	1.20		●							●		
	Venture	HIE 100W/C/U/LU/4K	E27	1.20		●							●		
HIE 100/U/LU/4K		E27	1.20		●							●			
HIE 100W/C/U/LU/3K		E27	1.20		●							●			
140 W	Philips	CPO-TW 140W	PGZ12	1.49	● (60)								●		
150 W	BLV	C-HIT 150W	G12	1.80		●			●			●			
		HIE 150W	G12	1.80		●			●			●			
		MHR 150W	plug	1.80		●			●			●			
	GE	ARC 150W	G12	1.80		●			●				●		
		ARC 150W	Rx7s-24	1.80		●			●				●		
		CMH 150W E UV C O	E27	1.85	● (65)	●			●				●		
		CMH 150W TT streetwise	E40	1.80	● (65)								●		
		CMH-T 150W	G12	1.80	● (65)	●			●				●		
		CMH-TD 150W	Rx7s-24	1.80	● (65)	●			●				●		
		MT 150W CEH-W/BU	E27	1.80									●		
	Iwasaki	MT 150W D	G12	1.90		●			●				●		
		Osram	HCI-E/P 150W	E27	1.80		●			●			●		
	Osram	HCI-T 150W	G12	1.80		●			●				●		
		HCI-TS 150W	Rx7s-24	1.80		●			●				●		
		HCI-TT 150W	E40	1.80	● (60)	●			●				●		
		HQI-E 150W	E27	1.80		●			●				●		
		HQI-R 150W	plug	1.80		●			●				●		
		HQI-T 150W	G12	1.80		●			●				●		
		HQI-TS 150W	Rx7s-24	1.80		●			●				●		
HTI 150W		plug	1.80		●			●				●			

The latest lamp matrix can be downloaded from internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

<sup>①</sup> Dimmability and minimum dimming value as a percentage of the lamp output according to the manufacturer.

## Lamp matrix – Metal halide lamps

Ballasts for high intensity discharge lamps Metal halide lamps (HI)						PCI PRO						Outdoor			
Wattage	Manufacturer	Description	Cap	Current A	Dimmability (in %) <sup>①</sup>	PCI PRO C	PCI MINI	PCI B	PCI FOX	PCI TOP	PCI TEC	PCIS	PCI	PCS	
150 W	Philips	CDM-T 150W	G12	1.80		•			•			•			
		CDM-T 150W ELITE	G12	1.80		•			•			•			
		CDM-ET 150W	E40	1.80			•			•			•		
		CDM-SA/T 150W	G12	1.80			•			•			•		
		CDM-TD 150W	Rx7s-24	1.80			•			•			•		
		CDM-TP 150W	PGX12-2	1.80			•								
		CDM-TT 150W	E40	1.80			•			•			•		
		CDO-ET 150W	E40	1.80	• (60)		•			•			•		
		CDO-TT 150W	E40	1.80	• (60)		•			•			•		
		MHN-T 150W	RGX12-2	1.80			•			•			•		
		MHN-TD 150W	Rx7s-24	1.80			•			•			•		
		MHT-T 150W	RGX12-2	1.80			•			•			•		
		MHW-TD 150W	Rx7s-24	1.80			•			•			•		
	Radium	HRI-T 150W	G12	1.80			•			•			•		
		HRI-E 150W	E27	1.80			•			•			•		
		HRI-TS 150W	Rx7s	1.80			•			•			•		
		RCC-TS 150W	Rx7s-24	1.80			•			•			•		
		RCC-T 150W	G12	1.80			•			•			•		
	Sylvania	CMI-T 150W / WDL	G12	1.80			•			•			•		
		CMI-T 150W Superball	G12	1.80			•			•			•		
		CMI-TD 150W Superball	Rx7s-24	1.80			•			•			•		
		HSI-MP 150W	E27	1.80			•			•			•		
		HSI-T 150W...	G12	1.80			•			•			•		
		HSI-TD 150W...	Rx7s-24	1.80			•			•			•		
	Venture	HIE 150W/C/U/LU/4K	E27	1.80			•			•			•		
		HIE 150W/U/LU/T38/4K	E27	1.80			•			•			•		

The latest lamp matrix can be downloaded from internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

<sup>①</sup> Dimmability and minimum dimming value as a percentage of the lamp output according to the manufacturer.

Lamp matrix – High-pressure sodium lamps

Ballasts for high intensity discharge lamps High-pressure sodium lamps (HS)						Outdoor		
Wattage	Manufacturer	Description	Cap	Current A	Dimmability (in %) <sup>①</sup>	PCIS	PCI	PCS
70 W	Aura	Sodinette ST 70W	E27	1.00	● (50)			●
	BLV	NAH - E 70W	E27	1.00	● (50)			●
		NAH - TR 70W	Rx7s	1.00	● (50)			●
	GE	LU 70/90W	E27	1.00	● (50)			●
		LU 70W/RFL	E27	1.00	● (50)			●
	Iwasaki	NH 70W /HV/...	E27	1.00	● (50)			●
	Osram	NAV E 70W	E27	1.00	● (50)			●
		NAV T 70W	E27	1.00	● (50)			●
		NAV TS 70W Super 4Y	Rx7s	1.00	● (50)			●
	Philips	SON 70 W...	E27	1.00	● (50)			●
		SON 70 W-E	E27	1.00	● (50)			●
		SON Hg free 70 W...	E27	1.00	● (50)			●
		SON-T 70 W...	E27	1.00	● (50)			●
		SON-T Hg free 70 W...	E27	1.00	● (50)			●
		SON-T plus 70 W...	E27	1.00	● (50)			●
	Radium	RNP-E 70 W	E27	1.00	● (50)			●
		RNP-T 70 W	E27	1.00	● (50)			●
		RNP-TS 70 W	Rx7s	1.00	● (50)			●
	Sylvania	SHP - S 70W ...	E27	1.00	● (50)			●
		SHP 70 W/CO-E	E27	1.00	● (50)			●
		SHP 70 W...	E27	1.00	● (50)			●
		SHP-T 70W	E27	1.00	● (50)			●
		SHP-TD 70W	E27	1.00	● (50)			●
		SHP-TS 70W	E27	1.00	● (50)			●
100 W	GE	LU 100W	E40	1.20	● (50)	●		
		LU 100W	E27	1.20	● (50)	●		
		TCF 100W	E40	1.20	● (50)	●		
	Osram	NAV E 100W	E40	1.20	● (50)	●		
		NAV T 100W	E40	1.20	● (50)	●		
	Philips	SON plus 100W	E40	1.20	● (50)	●		
		SON ... 100W	E40	1.20	● (50)	●		
		SON-T Hg free 100 W...	E40	1.20	● (50)	●		
		SON-T plus 100 W	E40	1.20	● (50)	●		
		SON-T ... 100W	E40	1.20	● (50)	●		
	Sylvania	SHP-S 100 W	E40	1.20	● (50)	●		
		SHP-T 100W	E40	1.20	● (50)	●		
		SHP-TS 100W	E40	1.20	● (50)	●		
	Iwasaki	NH 100W F	E40	1.20	● (50)	●		
NHT 100W		E40	1.20	● (50)	●			

The latest lamp matrix can be downloaded from internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

<sup>①</sup> Dimmability and minimum dimming value as a percentage of the lamp output according to the manufacturer.

## Lamp matrix – High-pressure sodium lamps

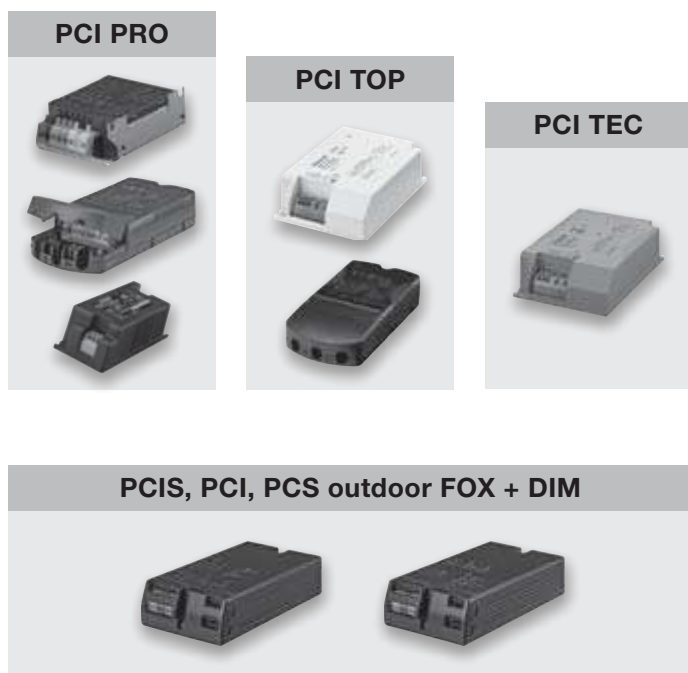
Ballasts for high intensity discharge lamps High-pressure sodium lamps (HS)						Outdoor		
Wattage	Manufacturer	Description	Cap	Current A	Dimmability (in %) <sup>①</sup>	PCIS	PCI	PCS
150 W	Aura	Sodnette ST 150W	E40	1.80	● (50)	●		
	BLV	HST-DE 150W	Fc2	1.80	● (50)	●		
		HST-DE 150W	Rx7s-24	1.80	● (50)	●		
		NAH-T 150W	E40	1.80	● (50)	●		
		GE	CMH150/UVC/T/U/842	E40	1.80	● (50)	●	
	LU 150W	LU 150W	E40	1.80	● (50)	●		
		LU 150W	E27	1.80	● (50)	●		
		TCF 150W	E40	1.80	● (50)	●		
	Iwasaki	NH 150W (100 V/1.8 A)	E40	1.80	● (50)	●		
		NHT 150W (100 V/1.8 A)	E40	1.80	● (50)	●		
	Osram	NAV E 150W	E40	1.80	● (50)	●		
		NAV T 150W	E40	1.80	● (50)	●		
		NAV TS 150W SUPER 4Y	Rx7s-24	1.80	● (50)	●		
	Philips	SON 150-E	E40	1.80	● (50)	●		
		SON Comfort 150W	E40	1.80	● (50)	●		
		SON Hg free 150W	E40	1.80	● (50)	●		
		SON plus 150W	E40	1.80	● (50)	●		
		SON ... 150W	E40	1.80	● (50)	●		
		SON-T Comfort 150W	E40	1.80	● (50)	●		
		SON-T Hg free 150W	E40	1.80	● (50)	●		
		SON-T PIA plus 150W	E40	1.80	● (50)	●		
		SON-T plus 150W	E40	1.80	● (50)	●		
		SON-T ... 150W	E40	1.80	● (50)	●		
	Radium	RNP-E 150W	E40	1.80	● (50)	●		
		RNT-T 150W	E40	1.80	● (50)	●		
		RNT-TS 150W	Rx7s-24	1.80	● (50)	●		
	Sylvania	SHP-S 150W...	E40	1.80	● (50)	●		
		SHP-T 150W...	E40	1.80	● (50)	●		
		SHP-TS 150W...	E40	1.80	● (50)	●		
	Venture	HPST 150W	E40	1.80	● (50)	●		

The latest lamp matrix can be downloaded from internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

<sup>①</sup> Dimmability and minimum dimming value as a percentage of the lamp output according to the manufacturer.

## Electronic ballasts for HID

There are many market requirements. There are major differences even in the case of lighting systems with high-intensity discharge lamps. With a three-level product portfolio for indoor applications and a dedicated product range for outdoor applications, Tridonic offer the right devices for every lighting task, enabling you to reliably satisfy your customers' individual needs.



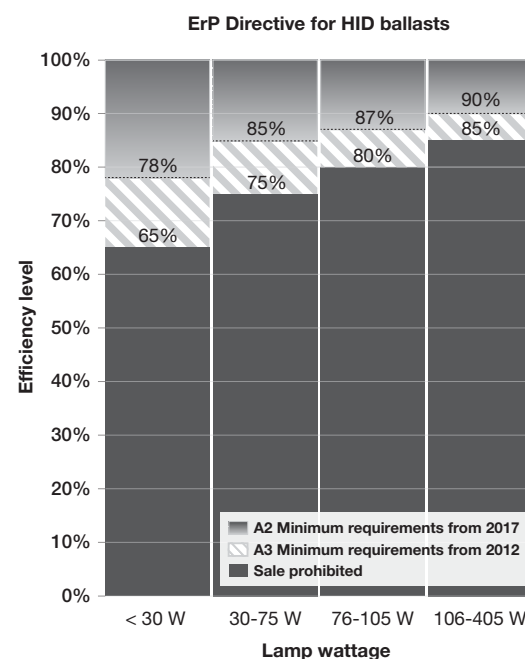
Good energy efficiency, high reliability and the right range of functionalities: we can supply the right ballast for every high-intensity discharge lamp for use in indoor and outdoor areas. PCI units from Tridonic operate extremely gently, compensate for fluctuations in mains voltage and shut-down the lamps safely when they reach the end of their lives.

### Impressive economy and efficiency

The PCI devices offer constant power control, square-wave operation and a particularly low current ripple to ensure that lamps are operated in accordance with manufacturers' specifications and therefore continue operating properly throughout their long lives.

Thanks to x!tec, Tridonic ballasts have a low component count but nevertheless offer greater benefits and more functions than other ballasts, because this intelligent chip handles a large number of tasks. Automatic shutdown at the end of the lamp's life enhances the reliability of the entire lighting system, for instance.

All Tridonic control gear for high-intensity discharge lamps already meets the 2017 requirements of the Energy Efficiency Index (EEI).



EEI classification and a declaration became mandatory for ballasts at the start of 2012/2013. Only ballasts that meet at least the requirements of energy efficiency class A3 have been permitted since then. Only ballasts that achieve A2 classification will be permitted from 2017 onwards. These future minimum energy efficiency index requirements will be accompanied by a ban on devices that fall in energy efficiency class A3. It will therefore not be possible to market inefficient magnetic ballasts.

### **Lighting comfort and quality**

An operating frequency between 130 and 160 Hz ensures that the light is flicker-free and prevents acoustic resonance. The electronically controlled constant and precise output ensures that the colour stability and luminous flux of high-intensity discharge lamps with either quartz or ceramic burners remain at their specified levels throughout the life of the lamps. The result is extremely small deviations in colour temperatures and excellent luminous efficacy in lighting systems.

The digital control technology of PCI reduces the restart time by as much as 50 %. EMC interference during ignition is therefore reduced by up to 95 % compared with magnetic solutions. The basis for ideal ignition is the successful pulse-pause technology from Tridonic.

### **Constant high quality**

The consistently high reliability of the PCI ballasts from Tridonic is also due to the optimized production processes certified to ISO 9001. Fully automatic manufacture also ensures constant reproducible quality of the highest level. All the ballasts are subjected to 100 % final testing and safety testing.

### **Innovations for luminaire installation**

PCI electronic ballasts in the C011 and B011 series are designed for luminaire installation. The PCI PRO C011 series in particular has impressive thermal behaviour. This enables them to be used reliably even in temperature-critical luminaires. In making the lifetime values for different operating temperatures fully transparent, Tridonic is acting as a pioneer and offering greater freedom for luminaire designers. Multi-watt devices are another highlight. In their successful compact design PCI PRO C011 units now combine two wattages in the same device, which increases flexibility in warehouse management and saves on costs for luminaire certification. The wattage is selected via connection of the appropriate supply terminal.

### **Specialist in surface-mounted applications**

PCI PRO C021 ballasts have set a new standard in ease of installation. With duplicated power terminals, through-wiring of cables with crosssections of up to 2.5 mm<sup>2</sup> is child's play. The three separate strain relief channels hold the cables safely and reliably. A unique feature is that the entire installation process can be completed without the need for a screwdriver – plug'n play in its purest form! The PCI PRO C521 devices are surface-mount devices with ready-made ST or GST lamp cables to make it even easier to connect luminaires in suspended ceilings. Two-lamp surface-mount devices are available on the successful B021 platform with fitted lamp cables as B521.

### **Amazingly convenient: PCI MINI**

Low wattages provide the inspiration to shrink the dimensions of a luminaire. This is precisely what the PCI MINI ballast does. With its slender design, it can fit into even very small luminaires or openings in false ceilings – without having to make any compromises when it comes to service life. Despite this miniaturisation, a service life of 50,000 hours is standard. The surface-mounted devices in this product line mean you don't have to do without the usual convenient terminals or mains through-looping.

**Do you speak DALI?**

If you do, the PCI FOX B011 devices from Tridonic will speak your language. FOX stands for **Fixed Output eXtended** – with “extended” referring to the digital DALI/DSI interface. This enables individual addressing, powerless switching and retrieval of status information. High-intensity discharge lamps can therefore be easily integrated in lighting control systems. For example, there is no need any more to open-up the luminaire to see whether the problem is a lamp fault or an overtemperature cutout.

**New product ranges in the PCI portfolio**

The PCI TOP product range concentrates on delivering top-class operation of mid-range metal halide lamps that are affordable and meet requisite quality requirements. PCI TOP ballasts really shine with their dependable ignition and flicker-free operation in built-in as well as surface-mounting applications. The ballast automatically switches off in the event of overheating and faulty or missing lamps, thereby improving the safety of your lighting system. The lamp cable can be up to 1.5 m long; this gives luminaire manufacturers plenty of leeway in most applications.

High safety standards and good efficiency: even in its entry-level segment, Tridonic offers the same qualities and characteristics that have helped its electronic gear for high-intensity discharge lamps achieve such triumphant success. The PCI TEC range makes it easy to say goodbye to magnetic ballasts. These electronic devices which are also based on our tried-and-tested x!tec topology operate quartz and ceramic metal halide lamps in perfect conformity with applicable standards. They provide added value in the form of better energy efficiency and highly reliable lighting. Various safety devices provide protection against excessive heat, voltage and short-circuits.

**Robust and durable: PCIS outdoor for outdoor applications**

Lighting for streets, tunnels, buildings and squares places special demands on the luminaires. Wind, weather and long operating times make small differences very noticeable. With a life of 60,000 hours and more, PCIS outdoor B011 is one of the most durable electronic components on the market. An important factor here is the special filling compound that perfectly meets the requirements of the electronic components and provides effective protection against moisture, dust and vibrations. Enhanced protection against mains transients and automatic shutdown of lamps at their end of life increase the reliability and safety of HI and HS lighting systems. The dimmable PCIS outdoor DIM B011 versions enable the level of light to be reduced at the quieter times of night, which means that enormous amounts of energy can be saved. These devices are controlled either via a mains control line (stepDIM) or via a digital DALI/DSI signal.

**Lamp matrix**

Which control gear for which lamp?

The latest lamp matrix is available on the internet: [www.tridonic.com](http://www.tridonic.com), menu “Technical data”, submenu “Lamp matrix”

**Technical information**

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu “Technical data”, submenu “Data sheets”

**Personal enquiries**

A form for personal enquiries is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu “Contact”, submenu “Contact form”

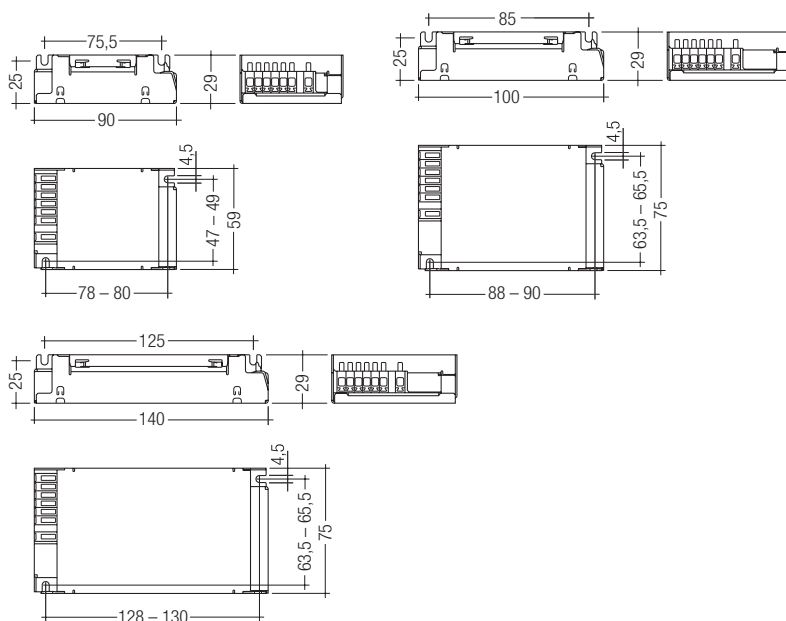


NEW  
WATTAGE

**PCI PRO C011 Single**  
PCI PRO, built-in applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - With patented circuit elements
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Multi-lamp management: two lamp wattages with one device (choice of power via selection of the terminal)
  - Casing: aluminium (PCI 20/22 PRO: steel)
  - Push-in terminals up to 2.5 mm<sup>2</sup>
  - Excellent thermal behaviour
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	198 – 320 V (at 22, 50, 70, 150 W)
Mains frequency	50 / 60 Hz
Max. ignition voltage	5 kVp (2 kVp at 22 W)
Operating frequency	145 Hz
Type of protection	IP20



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 20/22 PRO C011	86458600	15 pieces	1,350 pieces	0.150 kg
PCI 35/50 PRO C011	86459307	15 pieces	900 pieces	0.204 kg
PCI 35/70 PRO C011	86458601	15 pieces	900 pieces	0.204 kg
PCI 100/150 PRO C011	86458602	15 pieces	900 pieces	0.315 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power	EI	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
1 x 20 W	HI	PCI 20/22 PRO C011	86458600	90 x 59 x 29 mm	20 W	23.0 W	A2	> 88 %	0.10 A	0.95	2 m / 160 pF	75 °C	-25 ... 60 °C	70/55 °C
1 x 22 W	HI	PCI 20/22 PRO C011	86458600	90 x 59 x 29 mm	22 W	25.5 W	A2	> 88 %	0.10 A	0.95	2 m / 160 pF	75 °C	-25 ... 60 °C	70/55 °C
1 x 35 W	HI	PCI 35/50 PRO C011	86459307	100 x 75 x 29 mm	39 W	43.5 W	A2	> 89 %	0.20 A	0.96	5 m / 400 pF	80 °C	-25 ... 70 °C	70/60 °C
1 x 50 W	HI	PCI 35/50 PRO C011	86459307	100 x 75 x 29 mm	50 W	55.0 W	A2	> 90 %	0.25 A	0.96	5 m / 400 pF	80 °C	-25 ... 65 °C	70/55 °C
1 x 35 W	HI	PCI 35/70 PRO C011	86458601	100 x 75 x 29 mm	39 W	43.5 W	A2	> 89 %	0.20 A	0.97	5 m / 400 pF	80 °C	-25 ... 70 °C	70/60 °C
1 x 70 W	HI	PCI 35/70 PRO C011	86458601	100 x 75 x 29 mm	73 W	79.0 W	A2	> 90 %	0.35 A	0.97	5 m / 400 pF	80 °C	-25 ... 60 °C	70/50 °C
1 x 100 W	HI	PCI 100/150 PRO C011	86458602	140 x 75 x 29 mm	100 W	108.0 W	A2	> 91 %	0.50 A	0.97	5 m / 400 pF	85 °C	-25 ... 65 °C	80/60 °C
1 x 150 W	HI	PCI 100/150 PRO C011	86458602	140 x 75 x 29 mm	147 W	158.5 W	A2	> 91 %	0.70 A	0.97	5 m / 400 pF	80 °C	-25 ... 55 °C	75/50 °C



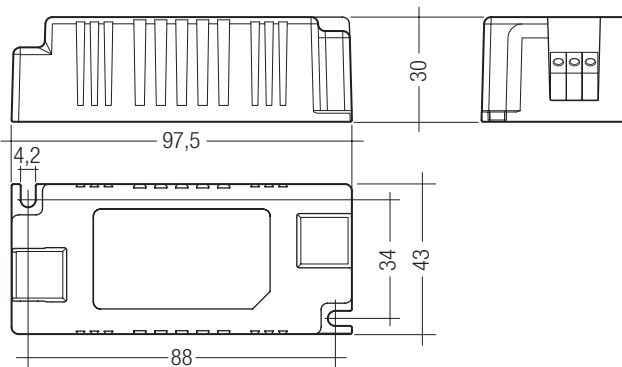


NEW

**PCI MINI Q211 Single**  
PCI PRO, built-in applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Flicker-free light
  - Colour stability thanks to constant power
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Automatic shutdown on overheating
  - Push-in terminals up to 1.5 mm<sup>2</sup>
  - Casing: polycarbonate V0, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
Mains frequency	50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	104 Hz
Type of protection	IP20



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 20 MINI Q211	24166386	40 pieces	560 pieces	0.105 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
1 x 20 W	HI	PCI 20 MINI Q211	24166386	97.5 x 43 x 30 mm	20 W	22.4 W	A2	> 88 %	0.1 A	0.97	1.5 m / 120 pF	70 °C	-20 ... +50 °C	70/50 °C

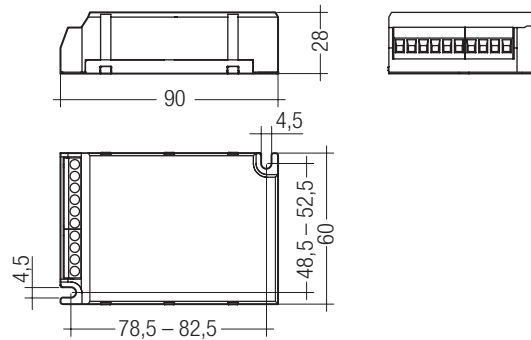
① At ta = 25 °C.



**PCI B011 Single**  
PCI PRO, built-in applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - With patented circuit elements
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Lower section of casing made of steel
  - Upper section of casing made of Makrolon, VO material, black
  - Screw terminals:  $\leq 1.5 \text{ mm}^2$  for stranded wire,  $\leq 2.5 \text{ mm}^2$  for solid wire
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	145 Hz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 0035 B011	86457897	15 pieces	1,080 pieces	0.16 kg



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>Ⓞ</sup>	EEL	Efficiency	Current at 50 Hz 230 V	$\lambda$ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for $\geq 50,000 \text{ h}$
1 x 35 W	HI	PCI 0035 B011	86457897	90 x 60 x 28 mm	39 W	44.5 W	A2	> 87 %	0.2 A	0.97	1.5 m / 120 pF	75 °C	-25 ... +50 °C	75/50 °C

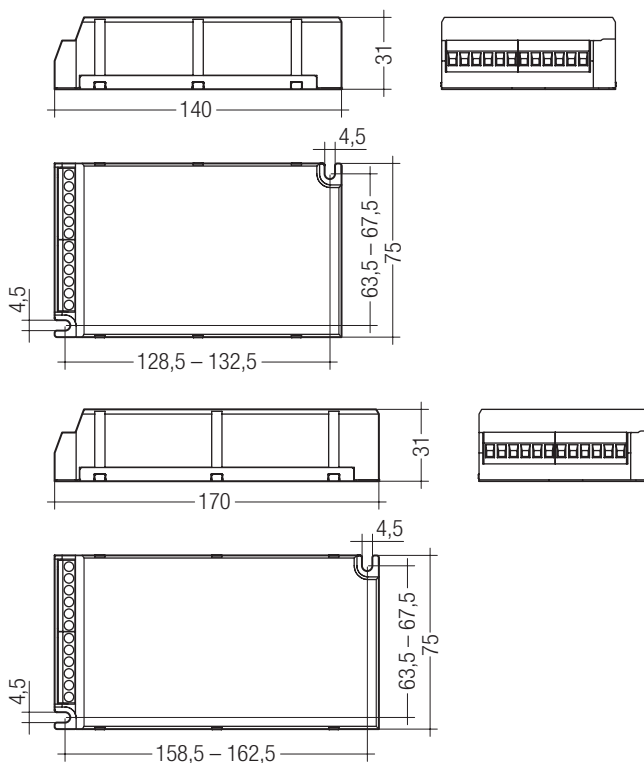
<sup>Ⓞ</sup> At ta = 25 °C.



**PCI B011 Twin**  
PCI PRO, built-in applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - With patented circuit elements
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Two independent lamp output circuits
  - Safety shutdown of an affected lamp circuit if a lamp is missing or faulty
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Lower section of casing made of steel
  - Upper section of casing made of Makrolon, VO material, black
  - Screw terminals:  $\leq 1.5 \text{ mm}^2$  for stranded wire,  $\leq 2.5 \text{ mm}^2$  for solid wire
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	145 Hz
Type of protection	IP20



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 2 lamps</b>				
PCI 2/35 B011	86458207	15 pieces	900 pieces	0.32 kg
PCI 2/70 B011	86458209	15 pieces	600 pieces	0.41 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL Efficiency	Current at 50 Hz 230 V	$\lambda$ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for $\geq 50,000$ h
2 x 35 W	HI	PCI 2/35 B011	86458207	140 x 75 x 31 mm	2 x 39 W	87 W	A2 > 89 %	0.38 A	0.97	per 1.5 m / 120 pF	65 °C	-25 ... +50 °C	65/50 °C
2 x 70 W	HI	PCI 2/70 B011	86458209	170 x 75 x 31 mm	2 x 72 W	158 W	A2 > 91 %	0.70 A	0.97	per 1.5 m / 120 pF	70 °C	-25 ... +40 °C	70/40 °C

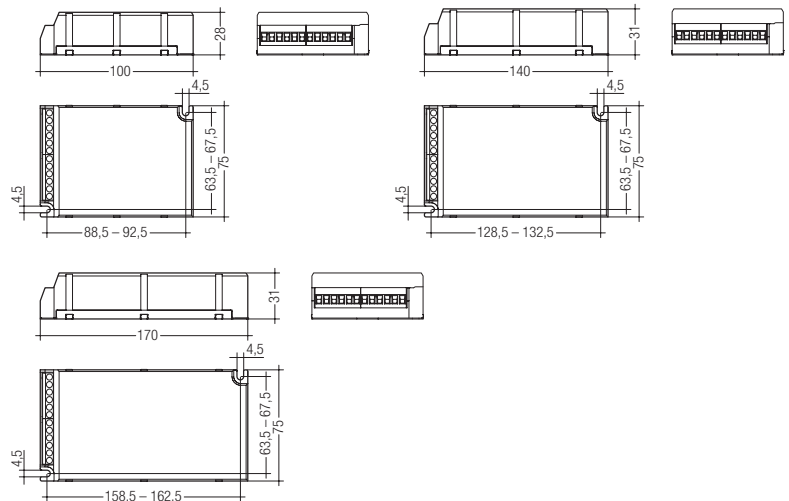
<sup>①</sup> At ta = 25 °C.



**PCI FOX B011**  
PCI PRO, built-in applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - Switching possible via mains or powerless via the digital interface
  - Noise-free precise control via DALI or DSI signal
  - On/off switching via DALI/DSI signal
  - Fault reporting in DALI mode
  - With patented circuit elements
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Screw terminals:  $\leq 1.5 \text{ mm}^2$  for stranded wire,  $\leq 2.5 \text{ mm}^2$  for solid wire
  - Lower section of casing made of steel
  - Upper section of casing made of Makrolon, VO material, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	145 Hz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 0020 FOX B011	86458340	15 pieces	600 pieces	0.19 kg
PCI 0035 FOX B011	86458341	15 pieces	600 pieces	0.19 kg
PCI 0070 FOX B011	86458342	15 pieces	600 pieces	0.25 kg
PCI 0150 FOX B011	86458343	15 pieces	600 pieces	0.37 kg



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>Ⓞ</sup>	EEL	Efficiency	Current at 50 Hz 230 V	$\lambda$ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for $\geq 50,000 \text{ h}$
<b>For luminaires with 1 lamp</b>														
1 x 20 W	HI	PCI 0020 FOX B011	86458340	100 x 75 x 28 mm	20 W	24.5 W	A2	> 84 %	0.10 A	0.95	1.5 m / 120 pF	80 °C	-25 ... +55 °C	80/55 °C
1 x 35 W	HI	PCI 0035 FOX B011	86458341	100 x 75 x 28 mm	39 W	45.0 W	A2	> 87 %	0.20 A	0.97	1.5 m / 120 pF	80 °C	-25 ... +50 °C	80/50 °C
1 x 70 W	HI	PCI 0070 FOX B011	86458342	140 x 75 x 31 mm	72 W	80.0 W	A2	> 89 %	0.35 A	0.97	1.5 m / 120 pF	80 °C	-25 ... +50 °C	80/50 °C
1 x 150 W	HI	PCI 0150 FOX B011	86458343	170 x 75 x 31 mm	147 W	160.0 W	A2	> 91 %	0.70 A	0.97	1.5 m / 120 pF	80 °C	-25 ... +50 °C	80/50 °C

<sup>Ⓞ</sup> At ta = 25 °C.

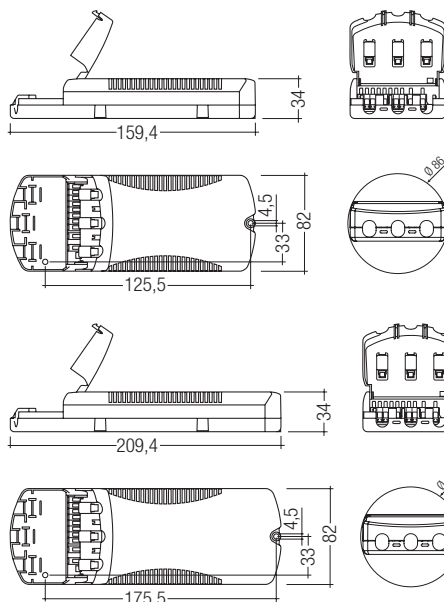


NEW  
WATTAGE

**PCI PRO C021 Single**  
PCI PRO, remote applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - With patented circuit elements
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Through wiring possible
  - No tools required for installing the terminal cover and cable clamps
  - Push-in terminals up to 2.5 mm<sup>2</sup>
  - 3 separate strain reliefs
  - Casing: polycarbonate, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	198 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp (2 kVp at 22 W)
Operating frequency	145 Hz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 20 PRO C021	86459018	15 pieces	720 pieces	0.25 kg
PCI 22 PRO C021	86459021	15 pieces	720 pieces	0.25 kg
PCI 35 PRO C021	86458606	15 pieces	720 pieces	0.25 kg
PCI 50 PRO C021	86459308	15 pieces	720 pieces	0.26 kg
PCI 70 PRO C021	86458607	15 pieces	720 pieces	0.26 kg
PCI 150 PRO C021	86458608	15 pieces	720 pieces	0.48 kg



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>Ⓞ</sup>	EEL	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
<b>For luminaires with 1 lamp</b>														
1 x 20 W	HI	PCI 20 PRO C021	86459018	159.4 x 82 x 34 mm	20 W	23.0 W	A2	> 88 %	0.10 A	0.95	2 m / 160 pF	70 °C	-25 ... +65 °C	70/65 °C
1 x 22 W	HI	PCI 22 PRO C021	86459021	159.4 x 82 x 34 mm	22 W	25.5 W	A2	> 88 %	0.11 A	0.95	2 m / 160 pF	70 °C	-25 ... +65 °C	70/65 °C
1 x 35 W	HI	PCI 35 PRO C021	86458606	159.4 x 82 x 34 mm	39 W	43.5 W	A2	> 89 %	0.20 A	0.97	5 m / 400 pF	80 °C	-25 ... +65 °C	80/65 °C
1 x 50 W	HI	PCI 50 PRO C021	86459308	159.4 x 82 x 34 mm	50 W	55.0 W	A2	> 90 %	0.25 A	0.96	5 m / 400 pF	75 °C	-25 ... +60 °C	75/60 °C
1 x 70 W	HI	PCI 70 PRO C021	86458607	159.4 x 82 x 34 mm	73 W	79.0 W	A2	> 90 %	0.35 A	0.97	5 m / 400 pF	75 °C	-25 ... +50 °C	75/50 °C
1 x 150 W	HI	PCI 150 PRO C021	86458608	209.4 x 82 x 34 mm	147 W	158.5 W	A2	> 91 %	0.70 A	0.97	5 m / 400 pF	80 °C	-25 ... +45 °C	80/45 °C

Ⓞ At ta = 25 °C.

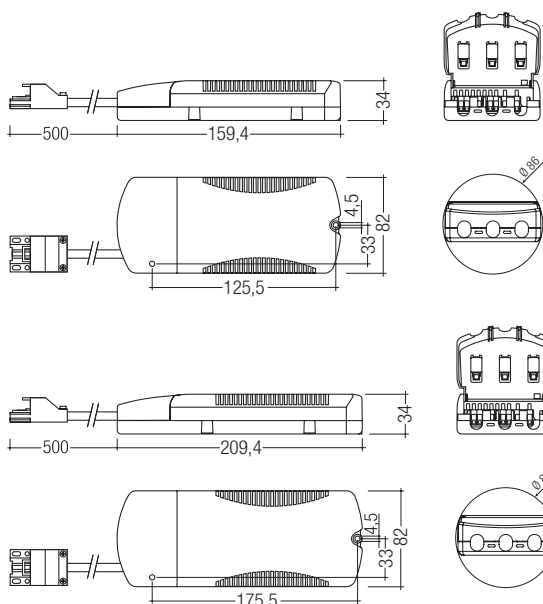


NEW  
WATTAGE

**PCI C521 Single ST**  
PCI PRO, remote applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - With patented circuit elements
  - Halogen-free lamp cable with ST18 socket and interlock lug
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Through wiring possible
  - No tools required for installing the terminal cover and cable clamps
  - Push-in terminals up to 2.5 mm<sup>2</sup>
  - 3 separate strain reliefs
  - Casing: polycarbonate, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	198 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp (2 kVp at 22 W)
Operating frequency	145 Hz
Type of protection	IP20



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 20 PRO C521 ST	86459019	12 pieces	288 pieces	0.30 kg
PCI 22 PRO C521 ST	86459022	12 pieces	288 pieces	0.30 kg
PCI 35 PRO C521 ST	86458609	12 pieces	288 pieces	0.30 kg
PCI 50 PRO C521 ST	86459309	12 pieces	288 pieces	0.31 kg
PCI 70 PRO C521 ST	86458610	12 pieces	288 pieces	0.31 kg
PCI 150 PRO C521 ST	86458611	12 pieces	288 pieces	0.53 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
<b>For luminaires with 1 lamp</b>														
1 x 20 W	HI	PCI 20 PRO C521 ST	86459019	159.4 x 82 x 34 mm	20 W	23.0 W	A2	> 88 %	0.10 A	0.95	2 m / 160 pF	70 °C	-25 ... +65 °C	70/65 °C
1 x 22 W	HI	PCI 22 PRO C521 ST	86459022	159.5 x 82 x 34 mm	22 W	25.5 W	A2	> 88 %	0.11 A	0.95	2 m / 160 pF	70 °C	-25 ... +65 °C	70/65 °C
1 x 35 W	HI	PCI 35 PRO C521 ST	86458609	159.4 x 82 x 34 mm	39 W	43.5 W	A2	> 89 %	0.20 A	0.97	5 m / 400 pF	80 °C	-25 ... +65 °C	80/65 °C
1 x 50 W	HI	PCI 50 PRO C521 ST	86459309	159.4 x 82 x 34 mm	50 W	55.0 W	A2	> 90 %	0.25 A	0.96	5 m / 400 pF	75 °C	-25 ... +60 °C	75/60 °C
1 x 70 W	HI	PCI 70 PRO C521 ST	86458610	159.4 x 82 x 34 mm	73 W	79.0 W	A2	> 90 %	0.35 A	0.97	5 m / 400 pF	75 °C	-25 ... +50 °C	75/50 °C
1 x 150 W	HI	PCI 150 PRO C521 ST	86458611	209.4 x 82 x 34 mm	147 W	158.5 W	A2	> 91 %	0.70 A	0.97	5 m / 400 pF	80 °C	-25 ... +45 °C	80/45 °C

① At ta = 25 °C.

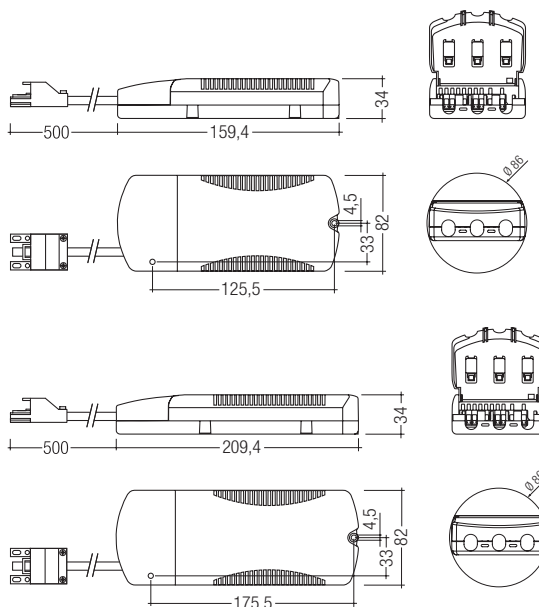


NEW  
WATTAGE

PCI C521 Single GST  
PCI PRO, remote applications

Product description

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - With patented circuit elements
  - Halogen-free lamp cable with GST18 socket and interlock lug
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Through wiring possible
  - No tools required for installing the terminal cover and cable clamps
  - Push-in terminals up to 2.5 mm<sup>2</sup>
  - 3 separate strain reliefs
  - Casing: polycarbonate, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Technical data

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	198 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp (2 kVp at 22 W)
Operating frequency	145 Hz
Type of protection	IP20

Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 20 PRO C521 GST	86459020	12 pieces	288 pieces	0.30 kg
PCI 22 PRO C521 GST	86459023	12 pieces	288 pieces	0.30 kg
PCI 35 PRO C521 GST	86458906	12 pieces	288 pieces	0.30 kg
PCI 50 PRO C521 GST	86459310	12 pieces	288 pieces	0.31 kg
PCI 70 PRO C521 GST	86458907	12 pieces	288 pieces	0.31 kg
PCI 150 PRO C521 GST	86458908	12 pieces	288 pieces	0.53 kg



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
<b>For luminaires with 1 lamp</b>														
1 x 20 W	HI	PCI 20 PRO C521 GST	86459020	159.4 x 82 x 34 mm	20 W	23.0 W	A2	> 88 %	0.10 A	0.95	2 m / 160 pF	70 °C	-25 ... +65 °C	70/65 °C
1 x 22 W	HI	PCI 22 PRO C521 GST	86459023	159.5 x 82 x 34 mm	22 W	25.5 W	A2	> 88 %	0.11 A	0.95	2 m / 160 pF	70 °C	-25 ... +65 °C	70/65 °C
1 x 35 W	HI	PCI 35 PRO C521 GST	86458906	159.4 x 82 x 34 mm	39 W	43.5 W	A2	> 89 %	0.20 A	0.97	5 m / 400 pF	80 °C	-25 ... +65 °C	80/65 °C
1 x 50 W	HI	PCI 50 PRO C521 GST	86459310	159.5 x 82 x 34 mm	50 W	55.0 W	A2	> 90 %	0.25 A	0.96	5 m / 400 pF	75 °C	-25 ... +60 °C	75/60 °C
1 x 70 W	HI	PCI 70 PRO C521 GST	86458907	159.5 x 82 x 34 mm	73 W	79.0 W	A2	> 90 %	0.35 A	0.97	5 m / 400 pF	75 °C	-25 ... +50 °C	75/50 °C
1 x 150 W	HI	PCI 150 PRO C521 GST	86458908	209.4 x 82 x 34 mm	147 W	158.5 W	A2	> 91 %	0.70 A	0.97	5 m / 400 pF	80 °C	-25 ... +45 °C	80/45 °C

① At ta = 25 °C.

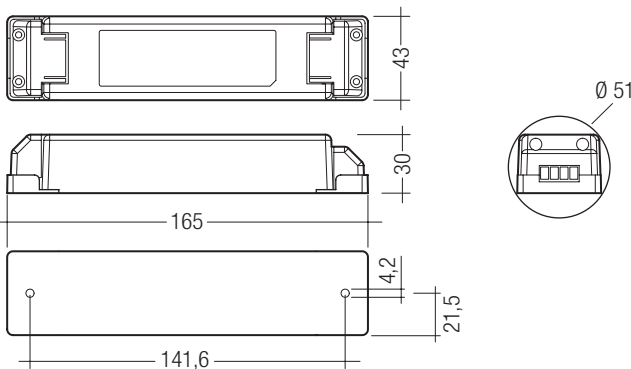


NEW

**PCI MINI Q221 Single**  
PCI PRO, remote applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Flicker-free light
  - Colour stability thanks to constant power
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Automatic shutdown on overheating
  - Through wiring possible
  - Push-in terminals up to 2.5 mm<sup>2</sup>
  - Casing: polycarbonate V0, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
Mains frequency	50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	104 Hz
Type of protection	IP20



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 20 MINI Q221	24166388	40 pieces	320 pieces	0.138 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 50,000 h
1 x 20 W	HI	PCI 20 MINI Q221	24166388	165 x 43 x 30 mm	20 W	22.4 W	A2	> 88 %	0.1 A	0.97	1.5 m / 120 pF	70 °C	-20 ... +50 °C	70/50 °C

① At ta = 25 °C.

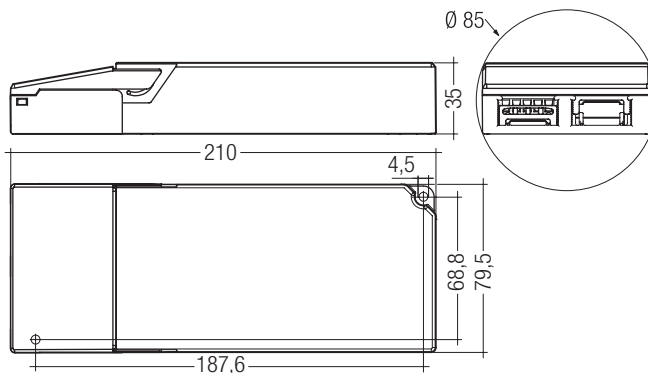
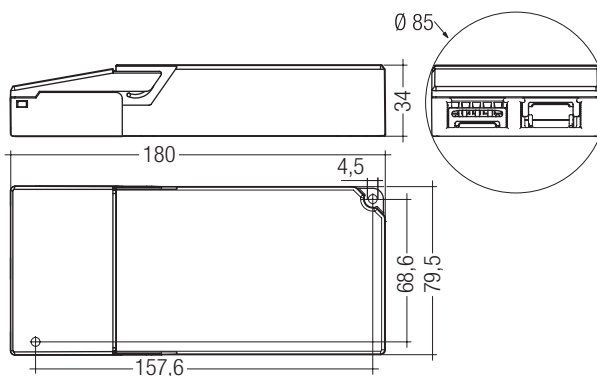




**PCI B021 Twin**  
PCI PRO, remote applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - With patented circuit elements
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Two independent lamp output circuits
  - Safety shutdown of an affected lamp circuit if a lamp is missing or faulty
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Through wiring possible
  - No tools required for installing the terminal cover and cable clamps
  - Screw terminals:  $\leq 1.5 \text{ mm}^2$  for stranded wire,  $\leq 2.5 \text{ mm}^2$  for solid wire
  - Casing, one-part, polyamide, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	145 Hz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 2 lamps</b>				
PCI 2/35 B021	86458208	15 pieces	810 pieces	0.35 kg
PCI 2/70 B021	86458210	15 pieces	810 pieces	0.44 kg



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	$\lambda$ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for $\geq 50,000$ h
2 x 35 W	HI	PCI 2/35 B021	86458208	180 x 79.5 x 34 mm	2 x 39 W	87 W	A2	> 89 %	0.38 A	0.97	per 3 m / 240 pF	65 °C	-25 ... +50 °C	65/50 °C
2 x 70 W	HI	PCI 2/70 B021	86458210	210 x 79.5 x 35 mm	2 x 72 W	158 W	A2	> 91 %	0.70 A	0.97	per 3 m / 240 pF	75 °C	-25 ... +45 °C	75/45 °C

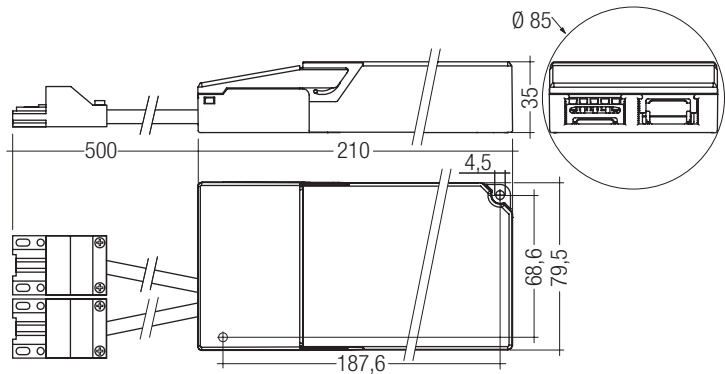
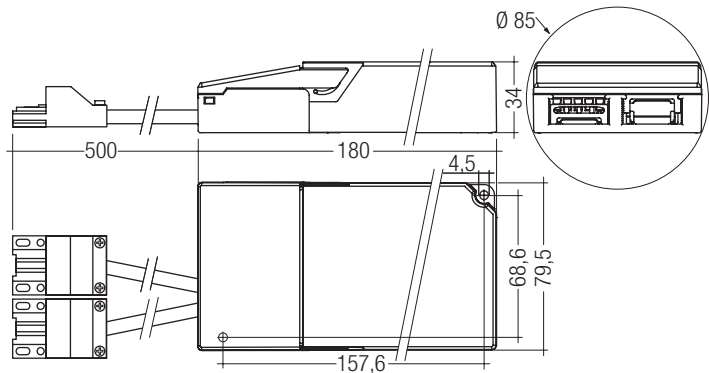
① At ta = 25 °C.



**PCI B521 Twin ST**  
PCI PRO, remote applications

**Product description**

- For metal halide lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - With patented circuit elements
  - Halogen-free lamp cable with ST18 socket and interlock lug
  - Flicker-free light
  - Colour stability thanks to constant power
  - Guaranteed long life
  - No acoustic resonance
  - Two independent lamp output circuits
  - Safety shutdown of an affected lamp circuit if a lamp is missing or faulty
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Through wiring possible
  - No tools required for installing the terminal cover and cable clamps
  - Screw terminals:  $\leq 1.5 \text{ mm}^2$  for stranded wire,  $\leq 2.5 \text{ mm}^2$  for solid wire
  - Casing, one-part, polyamide, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	145 Hz
Type of protection	IP20



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 2 lamps</b>				
PCI 2/35 B521 ST	86458338	12 pieces	288 pieces	0.45 kg
PCI 2/70 B521 ST	86458339	12 pieces	252 pieces	0.54 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	$\lambda$ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for $\geq 50,000 \text{ h}$
<b>For luminaires with 2 lamps</b>														
2 x 35 W	HI	PCI 2/35 B521 ST	86458338	180 x 79.5 x 34 mm	2 x 39 W	87 W	A2	> 89 %	0.38 A	0.97	per 3 m / 240 pF	65 °C	-25 ... +50 °C	65/50 °C
2 x 70 W	HI	PCI 2/70 B521 ST	86458339	210 x 79.5 x 35 mm	2 x 72 W	158 W	A2	> 91 %	0.70 A	0.97	per 3 m / 240 pF	75 °C	-25 ... +45 °C	75/45 °C

① At ta = 25 °C.

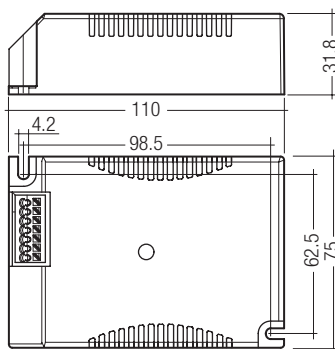


NEW

**PCI TOP C011 Single**  
PCI TOP, built-in applications

**Product description**

- For quartz and ceramic lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - Flicker-free light
  - Colour stability thanks to constant power
  - Low power loss
  - Low weight
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Casing: PBT-RG151 acc. to UL94-V0, white; steel base plate
  - Push-in terminals up to 1.5 mm<sup>2</sup>
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	140 Hz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 35 TOP C011	28000014	20 pieces	840 pieces	0.248 kg
PCI 50 TOP C011	28000015	20 pieces	840 pieces	0.248 kg
PCI 70 TOP C011	28000016	20 pieces	840 pieces	0.248 kg



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp wattage	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 40,000 h
<b>For luminaires with 1 lamp</b>														
1 x 35 W	HI	PCI 35 TOP C011	28000014	110 x 75 x 32 mm	39 W	44.0 W	A2	> 87 %	0.20	0.97	1.5 m / 120 pF	80 °C	-20 ... +60 °C	80/60 °C
1 x 50 W	HI	PCI 50 TOP C011	28000015	110 x 75 x 32 mm	50 W	55.0 W	A2	> 89 %	0.25	0.96	1.5 m / 120 pF	75 °C	-20 ... +55 °C	75/55 °C
1 x 70 W	HI	PCI 70 TOP C011	28000016	110 x 75 x 32 mm	73 W	80.5 W	A2	> 90 %	0.35	0.97	1.5 m / 120 pF	75 °C	-20 ... +50 °C	75/50 °C

① At ta = 25 °C.

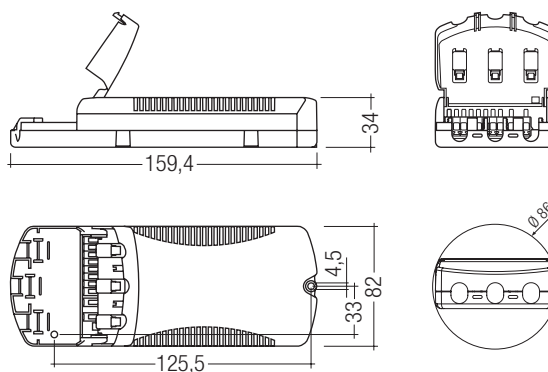


NEW

**PCI TOP C021 Single**  
PCI TOP, remote applications

**Product description**

- For quartz and ceramic lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - Flicker-free light
  - Colour stability thanks to constant power
  - Low power loss
  - Low weight
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - With integrated cable clamp and terminal cover
  - No tools required for installing the terminal cover and cable clamps
  - Push-in terminals up to 2.5 mm<sup>2</sup>
  - Casing: polycarbonate, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	198 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	145 Hz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 35 TOP C021	86459010	15 pieces	720 pieces	0.25 kg
PCI 50 TOP C021	86459312	15 pieces	720 pieces	0.25 kg
PCI 70 TOP C021	86459011	15 pieces	720 pieces	0.25 kg



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>Ⓞ</sup>	EEL	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 25,000 h
<b>For luminaires with 1 lamp</b>														
1 x 35 W	HI	PCI 35 TOP C021	86459010	159.4 x 82 x 34 mm	39 W	43.5 W	A2	> 88 %	0.20 A	0.97	1.5 m / 120 pF	70 °C	-20 ... +55 °C	70/55 °C
1 x 50 W	HI	PCI 50 TOP C021	86459312	159.4 x 82 x 34 mm	50 W	55.0 W	A2	> 89 %	0.25 A	0.96	1.5 m / 120 pF	65 °C	-20 ... +50 °C	65/50 °C
1 x 70 W	HI	PCI 70 TOP C021	86459011	159.4 x 82 x 34 mm	73 W	79.0 W	A2	> 90 %	0.35 A	0.97	1.5 m / 120 pF	65 °C	-20 ... +45 °C	65/45 °C

Ⓞ At ta = 25 °C.

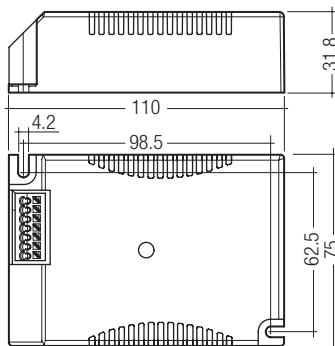


NEW

**PCI TEC C011 Single**  
PCI TEC, built-in applications

**Product description**

- For quartz and ceramic lamps
  - Also for mobile luminaires with connectors
  - Pulse packets for increased ignition energy (pulseCONTROL technology)
  - Flicker-free light
  - Colour stability thanks to constant power
  - Low power loss
  - Low weight
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Automatic shutdown on overheating
  - Casing: PBT-RG151 acc. to UL94-V0, cyan; steel base plate
  - Push-in terminals up to 1.5 mm<sup>2</sup>
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	140 Hz
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 35 TEC C011	87500118	20 pieces	1,260 pieces	0.205 kg
PCI 70 TEC C011	87500119	20 pieces	1,260 pieces	0.205 kg



Product / function matrix, page 142

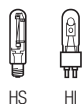
Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for ≥ 20,000 h
<b>For luminaires with 1 lamp</b>														
1 x 35 W	HI	PCI 35 TEC C011	87500118	110 x 75 x 32 mm	39 W	44.0 W	A2	> 87 %	0.20 A	0.97	1.5 m / 120 pF	75 °C	-10 ... +55 °C	75/55 °C
1 x 70 W	HI	PCI 70 TEC C011	87500119	110 x 75 x 32 mm	73 W	80.5 W	A2	> 90 %	0.35 A	0.97	1.5 m / 120 pF	80 °C	-10 ... +50 °C	80/50 °C

① At ta = 25 °C.

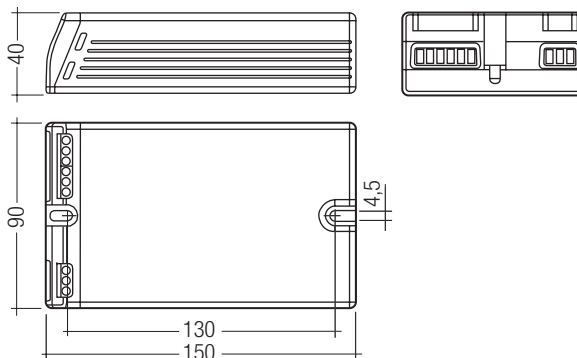


NEW  
WATTAGE

PCIS, PCI, PCS outdoor FOX B011  
Built-in applications

**Product description**

- Pulse packets for increased ignition energy (pulseCONTROL technology)
  - Flicker-free light
  - Colour stability thanks to constant power
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Screw terminals:  $\leq 1.5 \text{ mm}^2$  for stranded wire,  $\leq 2.5 \text{ mm}^2$  for solid wire
  - Switching possible via mains or powerless via the digital interface
  - Noise-free precise control via DALI or DSI signal
  - Fault reporting in DALI mode
  - Enhanced protection against mains transients
  - Enhanced insulation
  - Unit fully encased to protect against dust, moisture and vibration
  - Casing: polycarbonate, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
Mains frequency	50 / 60 Hz
Max. ignition voltage PCI, PCIS	5 kVp
Max. ignition voltage PCS	2.5 kVp
Operating frequency	145 Hz
Type of protection	IP20



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

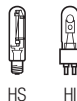
**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 45 outdoor FOX B011	86459331	16 pieces	480 pieces	0.72 kg
PCI 50 outdoor FOX B011	86459334	16 pieces	480 pieces	0.72 kg
PCS 50 outdoor FOX B011	86459333	16 pieces	480 pieces	0.72 kg
PCI 60 outdoor FOX B011	86459155	16 pieces	480 pieces	0.72 kg
PCI 70 outdoor FOX B011	86458590	16 pieces	480 pieces	0.72 kg
PCS 70 outdoor FOX B011	86458591	16 pieces	480 pieces	0.72 kg
PCI 90 outdoor FOX B011	86459156	16 pieces	480 pieces	0.75 kg
PCIS 100 outdoor FOX B011	86458592	16 pieces	480 pieces	0.75 kg
PCI 140 outdoor FOX B011	86459157	16 pieces	480 pieces	0.75 kg
PCIS 150 outdoor FOX B011	86458593	16 pieces	480 pieces	0.75 kg

**Specific technical data**

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL Efficiency	Current at 50 Hz 230 V	$\lambda$ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for $\geq 60,000 \text{ h}$
<b>For luminaires with 1 lamp</b>													
1 x 45 W	HI	PCI 45 outdoor FOX B011	86459331	150 x 90 x 40 mm	45 W	52 W	A2 > 88 %	0.23 A	0.97	5 m / 400 pF	70 °C	-25 ... +60 °C	70/60 °C
1 x 50 W	HI	PCI 50 outdoor FOX B011	86459334	150 x 90 x 40 mm	50 W	57 W	A2 > 88 %	0.25 A	0.97	5 m / 400 pF	70 °C	-25 ... +60 °C	70/60 °C
1 x 50 W	HS	PCS 50 outdoor FOX B011	86459333	150 x 90 x 40 mm	50 W	57 W	A2 > 88 %	0.25 A	0.97	5 m / 400 pF	70 °C	-25 ... +60 °C	70/60 °C
1 x 60 W	HI	PCI 60 outdoor FOX B011	86459155	150 x 90 x 40 mm	60 W	68 W	A2 > 88 %	0.30 A	0.97	5 m / 400 pF	70 °C	-25 ... +60 °C	70/60 °C
1 x 70 W	HI	PCI 70 outdoor FOX B011	86458590	150 x 90 x 40 mm	73 W	81 W	A2 > 88 %	0.35 A	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C	70/55 °C
1 x 70 W	HS	PCS 70 outdoor FOX B011	86458591	150 x 90 x 40 mm	73 W	81 W	A2 > 88 %	0.35 A	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C	70/55 °C
1 x 90 W	HI	PCI 90 outdoor FOX B011	86459156	150 x 90 x 40 mm	90 W	99 W	A2 > 91 %	0.45 A	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C	70/55 °C
1 x 100 W	HI / HS	PCIS 100 outdoor FOX B011	86458592	150 x 90 x 40 mm	100 W	109 W	A2 > 91 %	0.50 A	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C	70/55 °C
1 x 140 W	HI	PCI 140 outdoor FOX B011	86459157	150 x 90 x 40 mm	140 W	155 W	A2 > 91 %	0.65 A	0.97	5 m / 400 pF	75 °C	-25 ... +55 °C	75/55 °C
1 x 150 W	HI / HS	PCIS 150 outdoor FOX B011	86458593	150 x 90 x 40 mm	147 W	161 W	A2 > 91 %	0.70 A	0.97	5 m / 400 pF	75 °C	-25 ... +55 °C	75/55 °C

① At ta = 25 °C.

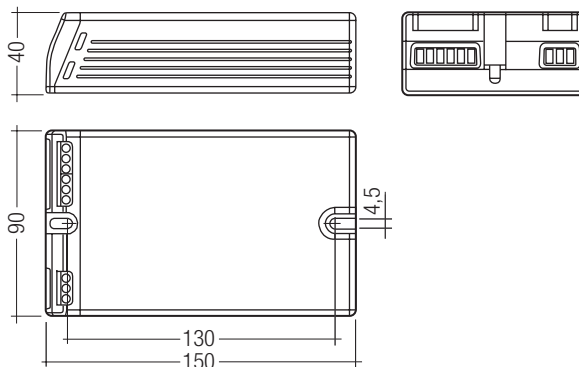


NEW  
WATTAGE

PCIS, PCI, PCS outdoor DIM B011  
Built-in applications

Product description

- Pulse packets for increased ignition energy (pulseCONTROL technology)
  - Flicker-free light
  - Colour stability thanks to constant power
  - No acoustic resonance
  - Safety shutdown if a lamp is faulty or missing
  - Greatly reduced reignition time
  - Hardly any EMC interference in the ignition phase
  - Screw terminals:  $\leq 1.5 \text{ mm}^2$  for stranded wire,  $\leq 2.5 \text{ mm}^2$  for solid wire
  - Dimming via digital interface
  - Noise-free precise control via DALI, DSI or stepDIM
  - Fault reporting in DALI mode
  - Unit fully encased to protect against dust, moisture and vibration
  - Enhanced protection against mains transients
  - Enhanced insulation
  - Casing: polycarbonate, black
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Technical data

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
Mains frequency	50 / 60 Hz
Max. ignition voltage PCI, PCIS	5 kVp
Max. ignition voltage PCS	2.5 kVp
Operating frequency	145 Hz
Type of protection	IP20

Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>For luminaires with 1 lamp</b>				
PCI 45 outdoor DIM B011	86459332	16 pieces	480 pieces	0.72 kg
PCI 50 outdoor DIM B011	86459336	16 pieces	480 pieces	0.72 kg
PCS 50 outdoor DIM B011	86459335	16 pieces	480 pieces	0.72 kg
PCI 60 outdoor DIM B011	86459159	16 pieces	480 pieces	0.72 kg
PCI 70 outdoor DIM B011	86459337	16 pieces	480 pieces	0.72 kg
PCS 70 outdoor DIM B011	86458595	16 pieces	480 pieces	0.72 kg
PCI 90 outdoor DIM B011	86459160	16 pieces	480 pieces	0.75 kg
PCIS 100 outdoor DIM B011	86458596	16 pieces	480 pieces	0.75 kg
PCI 140 outdoor DIM B011	86459161	16 pieces	480 pieces	0.75 kg
PCIS 150 outdoor DIM B011	86458597	16 pieces	480 pieces	0.75 kg



Product / function matrix, page 142

Lamp matrix, page 144

Wiring diagrams and installation examples, page 170

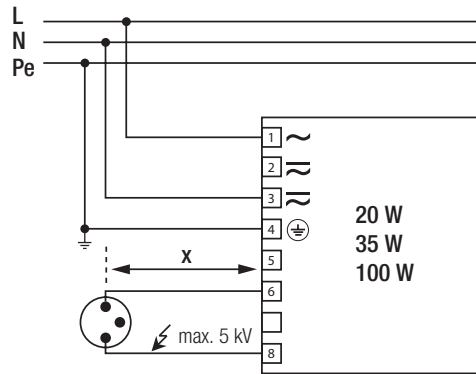
Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power <sup>①</sup>	EEL	Efficiency	Current at 50 Hz 230 V	$\lambda$ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for $\geq 60,000 \text{ h}$
<b>For luminaires with 1 lamp</b>														
1 x 45 W	HI	PCI 45 outdoor DIM B011	86459332	150 x 90 x 40 mm	45 W	52 W	A2	> 88 %	0.23 A	0.97	5 m / 400 pF	70 °C	-25 ... +60 °C	70/60 °C
1 x 50 W	HI	PCI 50 outdoor DIM B011	86459336	150 x 90 x 40 mm	50 W	57 W	A2	> 88 %	0.25 A	0.97	5 m / 400 pF	70 °C	-25 ... +60 °C	70/60 °C
1 x 50 W	HS	PCS 50 outdoor DIM B011	86459335	150 x 90 x 40 mm	50 W	57 W	A2	> 88 %	0.25 A	0.97	5 m / 400 pF	70 °C	-25 ... +60 °C	70/60 °C
1 x 60 W	HI	PCI 60 outdoor DIM B011	86459159	150 x 90 x 40 mm	60 W	68 W	A2	> 88 %	0.30 A	0.97	5 m / 400 pF	70 °C	-25 ... +60 °C	70/60 °C
1 x 70 W	HI	PCI 70 outdoor DIM B011	86459337	150 x 90 x 40 mm	70 W	81 W	A2	> 88 %	0.35 A	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C	70/55 °C
1 x 70 W	HS	PCS 70 outdoor DIM B011	86458595	150 x 90 x 40 mm	73 W	81 W	A2	> 88 %	0.35 A	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C	70/55 °C
1 x 90 W	HI	PCI 90 outdoor DIM B011	86459160	150 x 90 x 40 mm	90 W	99 W	A2	> 91 %	0.45 A	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C	70/55 °C
1 x 100 W	HI / HS	PCIS 100 outdoor DIM B011	86458596	150 x 90 x 40 mm	100 W	109 W	A2	> 91 %	0.50 A	0.97	5 m / 400 pF	70 °C	-25 ... +55 °C	70/55 °C
1 x 140 W	HI	PCI 140 outdoor DIM B011	86459161	150 x 90 x 40 mm	140 W	155 W	A2	> 91 %	0.65 A	0.97	5 m / 400 pF	75 °C	-25 ... +55 °C	75/55 °C
1 x 150 W	HI / HS	PCIS 150 outdoor DIM B011	86458597	150 x 90 x 40 mm	147 W	161 W	A2	> 91 %	0.70 A	0.97	5 m / 400 pF	75 °C	-25 ... +55 °C	75/55 °C

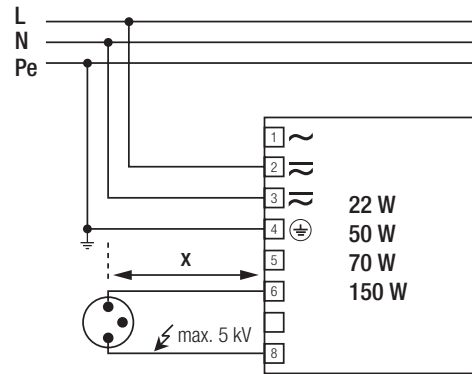
① At ta = 25 °C.

PCI PRO built-in applications

PCI PRO C011

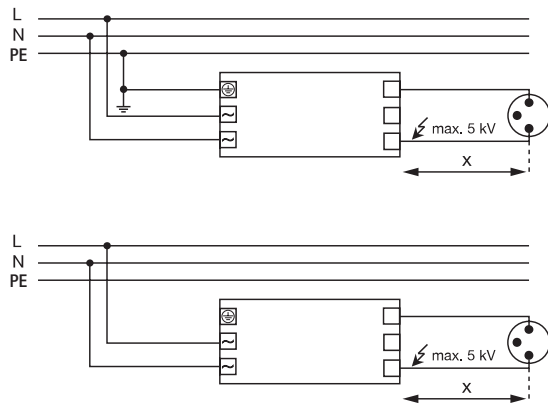


Multi-watt wiring diagram for 20, 35 and 100 W

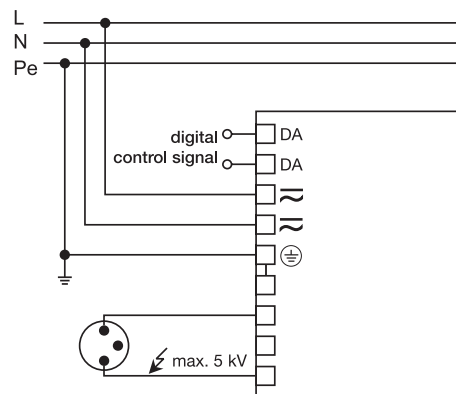


Multi-watt wiring diagram for 22, 50, 70 and 150 W

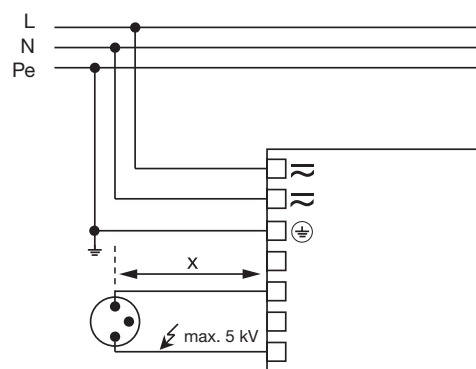
PCI MINI Q211 Single



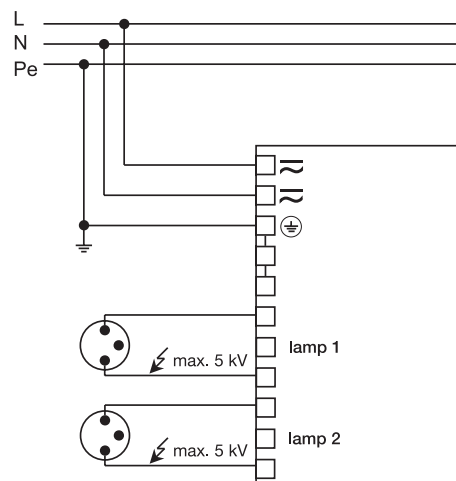
PCI FOX B011



PCI B011 Single



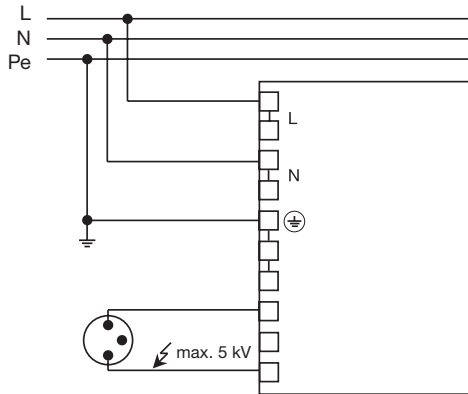
PCI B011 Twin + PCI B021/521 Twin



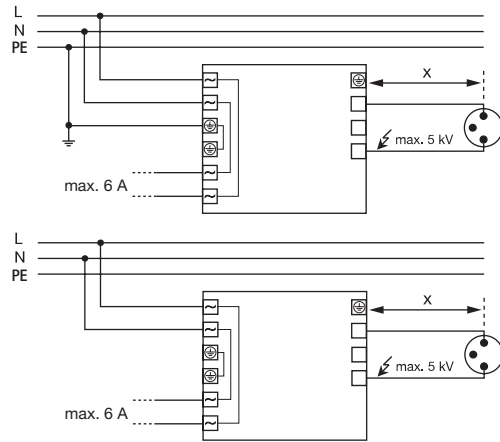


PCI PRO remote applications

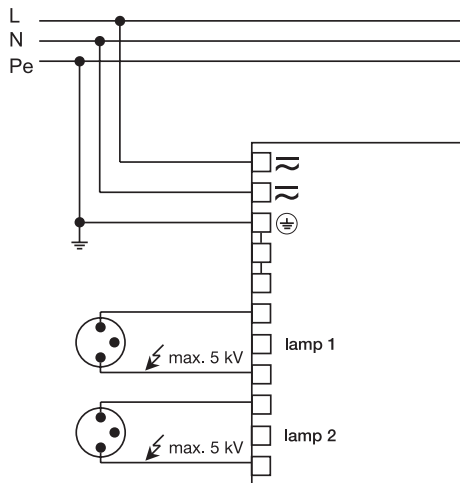
PCI PRO C021 + PCI PRO C521



PCI MINI Q221 Single

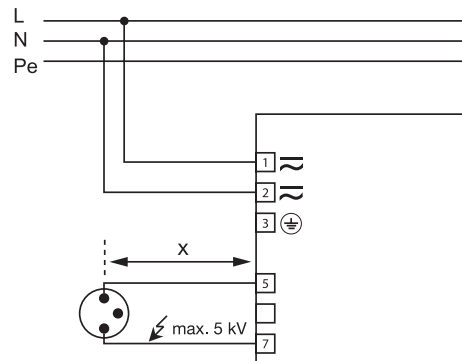
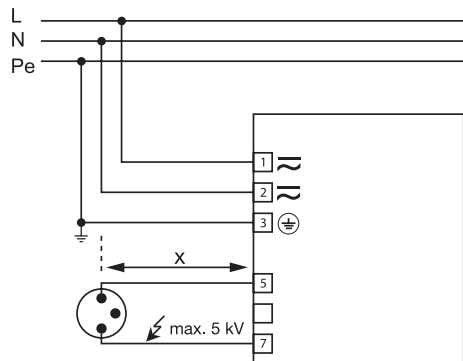


PCI B021/521 Twin

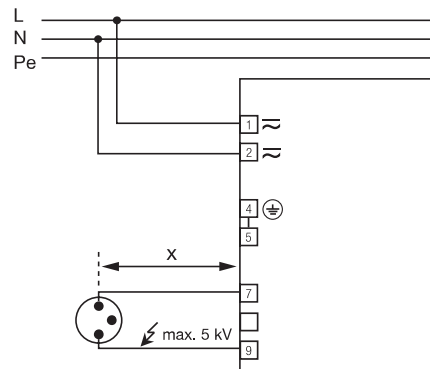
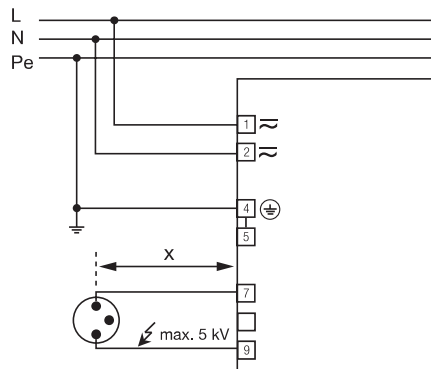


PCI TOP + TEC

PCI TOP C011 + PCI TEC C011 – built-in applications

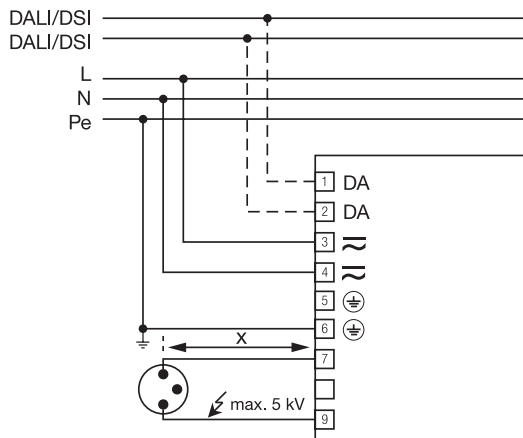


PCI TOP C021 – remote applications

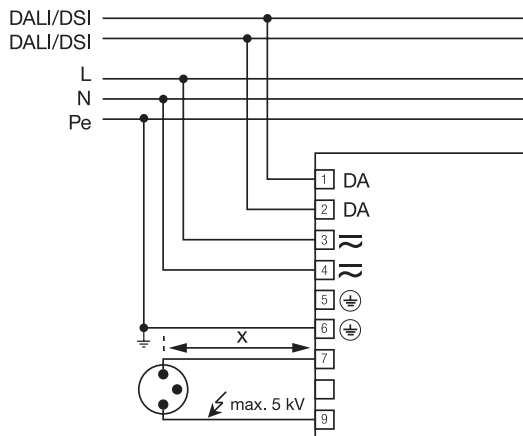


PCIS, PCI, PCS outdoor FOX + DIM

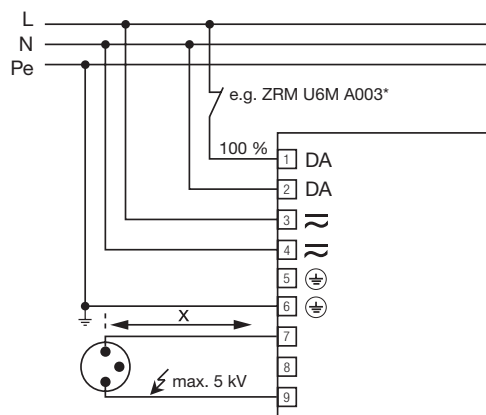
PCIS outdoor FOX B011



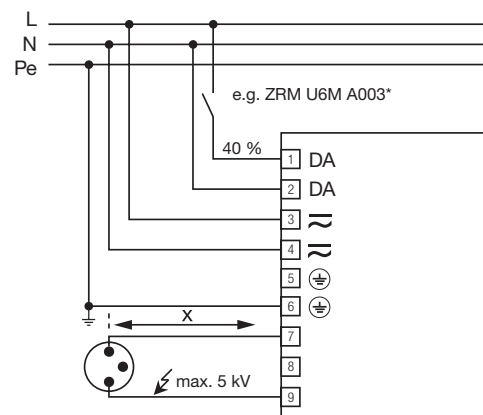
PCIS outdoor DIM B011 – DALI/DSI operation



PCIS outdoor DIM B011 – stepDIM operation, max. level



PCIS outdoor DIM B011 – stepDIM operation, min. level



ZRM U6M A003 see page 254



## Overview

Product overview	Page 179
Lamp matrix – High-pressure mercury lamps	Page 180
Lamp matrix – High-pressure sodium lamps	Page 181
Lamp matrix – Metal halide lamps	Page 187
Compensation matrix	Page 195

## Product information

Magnetic chokes for high-intensity discharge lamps	Page 199
Supply units for high-intensity discharge lamps	Page 201

## OM chokes

### High-pressure mercury and metal halide lamps

OMB 50 – 400 W OM PRO, push-in terminal	Page 202
OMB 50 – 400 W OM PRO, screw terminal	Page 203
OMB 50 – 400 W Vario 6-point	Page 204
OMB 50 – 400 W Vario 4-point	Page 205

### High-pressure sodium and metal halide lamps

OMBIS 35 – 150 W OM PRO, push-in terminal	Page 206
OMBIS 35 – 150 W OM PRO, screw terminal	Page 208
OMBIS 35 – 250 W OM PRO pulser tapping, screw terminal	Page 210
OMBIS 35 – 250 W Vario 6-point	Page 211
OMBIS 35 – 250 W Vario 4-point	Page 213

### SON SDW-T special lamp

OMB SDW 35 – 100 W for ignitors CCLS (Philips)	Page 215
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## OG chokes

### High-pressure mercury and metal halide lamps

OGL 250 – 1000 W	Page 216
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### High-pressure sodium and metal halide lamps

OGLIS 250 – 1000 W	Page 217
OGLIS 250 – 600 W Vario	Page 219

### Metal halide lamps

OGLI 2000 W	Page 220
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## EC HID chokes

### High-pressure mercury lamps

ECM 50 – 80 W	Page 221
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### High-pressure sodium and metal halide lamps

ECIS 35 – 70 W	Page 222
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Suitable for lamp type

	HM	HI	HS
OMB 50 – 400 W OM PRO, push-in terminal	•	•	
OMB 50 – 400 W OM PRO, screw terminal	•	•	
OMB 50 – 400 W Vario 6-point	•	•	
OMB 50 – 400 W Vario 4-point	•	•	
OMBIS 35 – 150 W OM PRO, push-in terminal		•	•
OMBIS 35 – 150 W OM PRO, screw terminal		•	•
OMBIS 35 – 250 W OM PRO pulser tapping, screw terminal		•	•
OMBIS 35 – 250 W Vario 6-point		•	•
OMBIS 35 – 250 W Vario 4-point		•	•
OMB SDW 35 – 100 W for ignitors CCLS (Philips)			•
OGL 250 – 1000 W	•	•	
OGLIS 250 – 1000 W		•	•
OGLIS 250 – 600 W Vario		•	•
OGLI 2000 W		•	•
ECM 50 – 80 W	•	•	
ECIS 35 – 70 W		•	•



## ECF/OMF blocking inductors

ECF 8 – 32	Page 223	•	•	•
ECF 8 – 60	Page 224	•	•	•
OMF 37 – 60	Page 225	•	•	•

## OM PAK supply units

OM PAK 35 – 150 W standard version	Page 226		•	•
OM PAK 35 – 150 W standard version with lamp cable	Page 227		•	•
OM PAK 35 – 150 W digital ignitor with timer	Page 228		•	•
OM PAK 35 – 150 W digital ignitor with timer and lamp cable	Page 229		•	•

**Wiring diagrams and installation examples (see ignitors) Page 257**





## Product overview



### OM chokes

Series: OMB, OMBIS, OMBS

Magnetic chokes for HID

- Max. winding temperature  $t_w = 130\text{ °C}$
- Cross-section 65 x 47 mm
- Core lengths from 30 to 150 mm
- Can be used for wattages between 35 and 400 W



### OG chokes

Series: OGL, OGLI, OGLIS

Magnetic chokes for HID

- Max. winding temperature  $t_w = 130\text{ °C}$
- Width 107 mm, height 78, 90 or 106 mm
- Core lengths from 30 to 210 mm
- Can be used for wattages between 250 and 3,500 W
- High efficiency and low self-heating



### EC chokes

Series: ECM, ECIS

Magnetic chokes for HID

- Max. winding temperature  $t_w = 130\text{ °C}$
- Compact cross-section (41 x 31 mm)
- Core lengths from 90 to 160 mm
- Can be used for wattages up to 150 W



### ECF/OMF blocking inductors

ECF: Blocking inductors – standard

OMF: Blocking inductors with double insulation

- Blocking frequency  $> 485\text{ Hz}$



### OM PAK supply units

Supply units for high-pressure sodium lamps and metal halide lamps:

- Low-loss OM series choke with thermal overload protection
- Exceptionally quiet operation
- Can be used even in high temperatures
- Simple connection in a generously sized connection compartment; no tools required
- Choice of rated voltage for 230, 240 and 250 V

## Lamp matrix – High-pressure mercury lamps

High-pressure mercury lamps, 50 – 1,000 W					ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK	
Manufacturer	Wattage	Description	Cap	Current A											
GE	50 W	H 50 ...	E27	0.60	•		•								
	80 W	H 80 ...	E27/B22	0.80	•		•								
	125 W	H 125 ...	E27/B22	1.15	•		•								
	250 W	H 250 ...	E40	2.15			•			•					
	400 W	H 400 ...	E40	3.25			•			•					
	700 W	H 700 ...	E40	5.45						•					
	1,000 W	H 1000 ...	E40	7.50						•					
Iwasaki	50 W	HF 50 PD	E27	0.61	•		•								
	80 W	HF 80 PD	E27	0.80	•		•								
	125 W	HF 125 PD	E27/E40	1.15	•		•								
	250 W	HF 250 PD	E40	2.13			•			•					
	400 W	HF 400 PD	E40	3.25			•			•					
	700 W	HF 700 PD	E40	5.40						•					
	1,000 W	HF 1000 PD	E40	7.50						•					
Osram	50 W	HQL 50	E27	0.60	•		•								
	80 W	HQL 80	E27	0.80	•		•								
	125 W	HQL 125	E27	1.15	•		•								
	250 W	HQL 250	E40	2.15			•			•					
	400 W	HQL 400	E40	3.25			•			•					
	700 W	HQL 700	E40	5.40						•					
	1,000 W	HQL 1000	E40	7.50						•					
Philips	50 W	HPL-N 50 W	E27	0.61	•		•								
	80 W	HPL-N 80 W	E27	0.80	•		•								
	125 W	HPL-N 125 W	E27/E40	1.15	•		•								
	250 W	HPL-N 250 W	E40	2.10			•			•					
	400 W	HPL-N 400 W	E40	3.25			•			•					
	700 W	HPL 700 W	E40	5.40						•					
	1,000 W	HPL-N 1000 W	E40	7.50						•					
Radium	50 W	HRL 50	E27	0.62	•		•								
	80 W	HRL 80	E27	0.80	•		•								
	125 W	HRL 125	E27	1.15	•		•								
	250 W	HRL 250	E40	2.15			•			•					
	400 W	HRL 400	E40	3.25			•			•					
	700 W	HRL 700	E40	5.40						•					
	1,000 W	HRL 1000	E40	7.50						•					
		HRLV 1000	E40	7.50						•					
Sylvania	50 W	HSL-BW 50	E27	0.62	•		•								
	80 W	HSL-BW 80	E27	0.80	•		•								
	125 W	HSL-BW 125	E27/E40	1.15	•		•								
	175 W	H39KC-175 /DX	E39	1.50			•								
	250 W	HSL-BW 250	E40	2.15			•			•					
	400 W	HSL-BW 400	E40	3.25			•			•					
	700 W	HSL-BW 700	E40	5.40						•					
	1,000 W	H34GW-1000 /DX	E39	8.00											
		H36GW-1000 /DX	E39	4.00											
HSL-BW 1000W		E40	7.50						•						

## Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 70 – 600 W BLV				$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
70 W	NAH-E 70	E27	1.00	•				•		•						
	NAH-TR 70	RX7s	1.00	•	•			•		•						•
150 W	NAH-T 150	E40	1.80		•			•			•					•
	HST-DE 150	Fc2, RX7s	1.80		•			•			•					•
250 W	NAH-T 250	E40	3.00		•						•					•
	HST-DE 250	Fc2, RX7s	3.00		•						•					•
400 W	NAH-T 400	E40	4.60		•								•			
	HST-DE 400	Fc2, RX7s	4.60		•								•			
600 W	NAH-T 600	E40	6.20		•								•			

High-pressure sodium lamps, 50 – 1,000 W GE				$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
50 W	LU 50/90	E27	0.76	•						•						
	LU 50/90...I	E27	0.76		integrated					•						
70 W	LU 70/90...I	E27	0.98		integrated			•			•					
	LU 70/90...	E27	0.98	•				•			•					
100 W	LU 100 ...	E40	1.20		•						•					
	TCF 100	E40	1.20		•						•					
150 W	LU 150/100 (S56)	E40	1.80		•			•			•					•
	TCF 150	E40	1.80		•			•			•					•
250 W	LU 250 .../40 (S50)	E40	3.00		•						•				•	
	LU 250/TD	RX7s	2.95		•						•				•	
400 W	LU 400 ...	E40	4.60		•								•			
	LU 400W .../TD	RX7s	4.40		•								•			
600 W	LU 600	E40	6.00		•								•			
1,000 W	LU 1000 (S52)	E40	4.70													
	LU 1000/110	E40	10.30		•										•	

HID magnetic chokes

## Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 50 – 1,000 W Iwasaki				$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
50 W	NH 50 F/HV/I	E27	0.76	integrated					•							
	NHT 50 /I	E27	0.76	integrated					•							
	NH 50 .../HV/...	E27	0.76	•					•							
70 W	NH 70 F/HV/I	E27	0.98	integrated				•		•	•					
	NH 70	E27	0.98	•				•		•	•					
	NHT 70 /I	E27	0.98	integrated				•		•	•					
	NH 70 /HV/... 70 S	E27	0.98	•				•		•	•					
100 W	NH 100 F/HV/I	E40	1.20	integrated							•					
	NHT 100 /I	E40	1.20	integrated							•					
	NH 100 F	E40	1.20	•							•					
	NHT 100	E40	1.20	•							•					
150 W	NH 150 F/HV/I	E40	1.80	integrated				•			•					
	NHT 150 /I	E40	1.80	integrated				•			•					
	NH 150 ...	E40	1.80	•				•			•					•
	NHT 150 ...	E40	1.80	•				•			•					•
250 W	NHT 250 /I	E40	3.00	integrated							•				•	
	NHT 150 F/I	E40	3.00	integrated							•				•	
	NH 250 ...	E40	3.00	•							•				•	
	NHT 250 ...	E40	3.00	•							•				•	
400 W	NH 400 F/I	E40	4.45	integrated									•			
	NHT 400 /I	E40	4.60	integrated									•			
	NH 400 ...	E40	4.45	•									•			
	NHT 400 ...	E40	4.60	•									•			
1,000 W	NHT 1000 /I	E40	10.60	integrated											•	
	NHT 1000 /B	E40	4.70	•												
	NHT 1000 F/I	E40	10.60	integrated											•	
	NH 1000	E40	10.30	•											•	
	NHT 1000	E40	10.60	•											•	

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 50 – 1,000 W Osram				$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
50 W	NAV E 50	E27	0.77	•						•						
	NAV E 50	E27	0.77	integrated						•						
	NAV T 50 SUPER 4Y	E27	0.80	•						•						
70 W	NAV E 70 I	E27	0.98	integrated				•		•	•					
	NAV E 70 ...	E27	0.98	•				•		•	•					
	NAV T 70 ...	E27	0.98	•				•		•	•					
	NAV-TS 70 SUPER 4Y	RX7s	0.98	•	•			•		•	•					•
100 W	NAV E 100 SUPER 4Y	E40	1.20		•						•					•
	NAV T 100 SUPER 4Y	E40	1.20		•						•					•
150 W	NAV E 150 ...	E40	1.80		•			•			•					•
	NAV T 150 ...	E40	1.80		•			•			•					•
	NAV T 150 W S TT	E40	1.80		•			•			•					•
	NAV TS 150 ...	RX7s	1.80		•			•			•					•
250 W	NAV E 250 ...	E40	3.00		•						•				•	
	NAV T 250 ...	E40	3.00		•						•				•	
	NAV T 250 W S TT	E40	3.00		•						•				•	
	NAV TS 250	Fc2	3.00		•						•				•	
400 W	NAV E 400 ...	E40	4.40		•								•			
	NAV T 400 ...	E40	4.40		•								•			
	NAV T 400 W S TT	E40	4.50		•								•			
	NAV TS 400 ...	Fc2	4.40		•								•			
600 W	NAV-T 600 SUPER 4Y	E40	6.20		•							•				
1,000 W	NAV E 1000	E40	10.30		•										•	
	NAV T 1000	E40	10.60		•										•	

HID magnetic chokes

## Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 35 – 1,000 W Philips				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
35 W	SDW-T 35W	PG12-1	0.48	integrated					•							
50 W	SDW-T 50W	PG12-1	0.76	integrated					•							
	SON 50 W-I	E27	0.76	integrated						•						
	SON 50 W-E	E27	0.76	•						•						
	SON-T ... 50W	E27	0.75	•						•						
70 W	SON 70 W I	E27	0.98	integrated				•		•	•					
	SON 70 W ...	E27	0.98	•				•		•	•					
	SON 70 W-E	E27	0.98	•				•		•	•					
	SON-T plus 70 W ...	E27	1.00	•				•		•	•					
	SON-T Hg free 70 W ...	E27	0.98	•				•		•	•					
	SON Hg free 70 W ...	E27	0.98	•				•		•	•					
	SON-T 70 W ...	E27	0.98	•				•		•	•					
100 W	SDW-T 100 W	PG12-1	1.31	integrated					•							
	SON...100 W	E40	1.20		•						•					•
	SON-T...100 W	E40	1.20		•						•					•
	SON plus 100 W	E40	1.20		•						•					•
	SON-T plus 100 W	E40	1.20		•						•					•
	SON-T Hg free 100 W	E40	1.24		•						•					•
150 W	SON 150 W	E40	1.80		•			•			•					•
	SON-T 150 W	E40	1.80		•			•			•					•
	SON-E 150 W	E40	1.80		•			•			•					•
	SON Comfort 150 W	E40	1.82		•			•			•					•
	SON-T Comfort 150 W	E40	1.82		•			•			•					•
	SON-T plus 150 W	E40	1.80		•			•			•					•
	SON-T Hg free 150 W	E40	1.80		•			•			•					•
	SON Hg free 150 W	E40	1.80		•			•			•					•
	SON plus 150 W	E40	1.80		•			•			•					•
250 W	SON... 250 W	E40	3.00		•						•					•
	SON-T... 250 W	E40	3.00		•						•					•
400 W	SON... 400 W	E40	4.45		•								•			
	SON-T... 400 W	E40	4.60		•								•			
	SON-T AGRO	E40	4.13		•								•			
600 W	SON-T plus 600 W	E40	5.80		•								•			
1,000 W	SON 1000 W	E40	10.30		•											•
	SON-T 1000 W	E40	10.60		•											•

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 50 – 1,000 W				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
50 W	RNP-E 50 W/I	E27	0.76	integrated						•						
	RNP-E 50 W	E27	0.76	•						•						
70 W	RNP-E 70 W/I	E27	1.00	integrated				•			•					
	RNP-E 70 W	E27	1.00	•				•			•					
	RNP-T 70 W	E27	1.00	•				•			•					
	RNP-TS 70 W	RX7s	1.00	•	•			•			•					
150 W	RNP-E 150 ...	E40	1.80		•			•			•					•
	RNT-T 150 ...	E40	1.80		•			•			•					•
	RNT-TS 150 ...	RX7s	1.80		•			•			•					•
250 W	RNP-E 250 ...	E40	3.00		•						•				•	
	RNP-T 250 ...	E40	3.00		•						•				•	
400 W	RNP-E 400 W	E40	4.60		•								•			
	RNP-T 400 W	E40	4.60		•								•			
600 W	RNP-T 600 W	E40	6.20		•								•			
1,000 W	RNP-E 1000 W	E40	10.30		•										•	
	RNP-T 1000 W	E40	10.30		•										•	

HID magnetic chokes

Lamp matrix – High-pressure sodium lamps

High-pressure sodium lamps, 35 – 1,000 W Sylvania				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
35 W	SHP-S 35 ...	E27	0.49	•				•			•					
	SHP-TS 35 W	E27	0.49	•				•			•					
50 W	SHP 50 W ...I	E27	0.76	integrated							•					
	SHP-S 50 W ...	E27	0.76	•						•						
	SHP-TS 50 W	E27	0.76	•						•						
70 W	SHP 70 W ...I	E27	1.00	integrated				•			•	•				
	SHP 70 W ...	E27	1.00	•				•		•	•					
	SHP-T 70 W ...	E27	1.00	•				•		•	•					
	SHP-TD 70 W ...	E27	1.00	•				•		•	•					
	SHP-TS 70 W ...	E27	1.00	•				•		•	•					
	SHP 70 W/CO-E	E27	0.98	•				•		•	•					
	SHP-S 70 W ...	E27	1.00	•				•		•	•					
100 W	SHP-S 100 W	E27/E40	1.20		•						•					•
	SHP-T 100 W	E40	1.20		•						•					•
	SHP-TS 100 W...	E40	1.20		•						•					•
150 W	LU 150 ... (100 V)	E40	1.80		•			•			•					•
	SHP-S 150 W ...	E40	1.80		•			•			•					•
	SHP-T 150 W ...	E40	1.80		•			•			•					•
	SHP-TD 150 W ...	E40	1.80		•			•			•					•
	SHP-TS 150 W ...	E40	1.80		•			•			•					•
250 W	LU 250 ... (S50)	E39	3.00		•						•				•	
	SHP 250 W ...	E40	2.95		•						•				•	
	SHP-S 250 W ...	E40	2.95		•						•				•	
	SHP-T 250 W ...	E40	2.95		•						•				•	
	SHP-TS 250 W ...	E40	2.95		•						•				•	
400 W	LU 400 ... (S51)	E39	4.70		•								•			
	SHP 400 W ...	E40	4.50		•								•			
	SHP-T 400 W ...	E40	4.50		•								•			
	SHP-TS 400W GroLux	E40	4.00		•								•			
	SHP-TS 400 W ...	E40	4.50		•								•			
600 W	SHP-TS 600 W	E40	5.90		•								•			
	SHP-TS 600 W GroLux	E40	5.50		•								•			
1,000 W	LU 1000 (S52)	E39	4.70													
	SHP-T 1000 W ...	E40	10.60		•										•	



Lamp matrix – Metal halide lamps

Metal halide lamps, 35 – 1,000 W BLV				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK	
Wattage	Description	Cap	Current A														
35 W	C-HIT 35	G12	0.50		•						•						•
70 W	C-HIT 70 DE	RX7s	1.00		•						•						•
	C-HIT 70 WW	G12	1.00		•						•						•
	HIE ... 70 ...	E27	1.00		•						•						•
	HIE-P 70	E27	1.00		•						•						•
	HIT 70 DE	RX7s	1.00		•						•						•
100 W	MHR 100	plug	1.20		•						•						
	HIE 100	E27	1.20		•						•						
150 W	C-HIT 150 DE	RX7s	1.80		•						•						•
	C-HIT 150 WW	G12	1.80		•						•						•
	HIE 150	E27	1.80		•						•						•
	HIT 150	E40	1.80		•						•						•
	HIT 150 DE	RX7s	1.80		•						•						•
	MHR 150W	plug	1.80		•						•						•
250 W	HIT 250 ...	Fc2, E40	3.00		•						•					•	
400 W	HIT 400 ...	E40	4.60		•							•					
1,000 W	HIT 1000	E40	9.50		•												•

HID magnetic chokes

Metal halide lamps, 35 – 2,000 W GE				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK	
Wattage	Description	Cap	Current A														
35 W	CMH 35W/T	G12	0.50		•						•						•
	CMH 35W/TC	G8.5	0.50		•						•						•
	CMH 35W/PAR	E27	0.50		•						•						•
70 W	ARC 70W ...	RX7s	1.00		•						•						•
	CMH 70W/T ...	G12	1.00		•						•						•
	CMH 70W/TD ...	RX7s	1.00		•						•						•
	CMH 70W/T Mini	G8.5	1.00		•						•						•
	CMH 70W/PAR	E27	1.00		•						•						•
100 W	MXR 100W	E27	1.20		•						•						
	CMH 100W/C/U/830	E27	1.15		•						•						
150 W	ARC 150W ...	G12, RX7s	1.80		•						•						•
250 W	ARC 250W ...	Fc2, E40	2.15		•												•
400 W	ARC 400W/D	E40	4.20		•							•					
	KRC 400W ...	E40	3.25		•				•								
2,000 W	MBIL 2000W	special	10.30		integrated									•			

## Lamp matrix – Metal halide lamps

Metal halide lamps, 70 – 2,000 W Iwasaki				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
70 W	MT 70W Color Arc	E27	1.00	•				•			•					
	MHT 70W Color Arc	G12	1.00	•				•			•					
150 W	MT 150W Color Arc	E27	1.80	•							•					
	MT 150W CEH-W/BU	E27	1.80	•							•					
250 W	MT 250W	E40	3.00		•				•							
	MT 250W Color Arc	E40	3.00		•					•					•	
400 W	MT 400W	E40	3.25		•							•				
1,000 W	MT 1000W ...	E40	8.25		•							•			•	
2,000 W	MT 2000W B-BH-L	E40	8.80			•								•		

Metal halide lamps, 35 – 150 W Osram				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
35 W	HCI-T 35W ...	G12	0.53		•						•					•
	HQI-T 35W/WDL	G12	0.53		•						•					•
	HQI-T 35W/WDL/BU	G12	0.53		•						•					•
	HCI-TC 35W/WDL	G8.5	0.53		•						•					•
70 W	HQI-T 70W ...	G12	1.00		•						•					•
	HCI-T 70W	G12	1.00		•			•			•					•
	HQI-TS 70W ...	RX7s	1.00		•			•			•					•
	HCI-TS 70W	RX7s	1.00		•			•			•					•
	HQI-E 70W ...	E27	1.00		•			•			•					•
	HCI-T 70W/WDL	G12	1.00		•			•			•					•
	HCI-TC 70W/WDL	G8.5	1.00		•			•			•					•
	HCI-E/P70W/WDL	E27	1.00		•			•			•					•
	HCI-PAR 30 70W/WDL	E27	1.00		•			•			•					•
100 W	HQI-E 100W ...	E27	1.20		•					•						
150 W	HQI-T 150W ...	G12	1.80		•						•					•
	HCI-T 150W	G12	1.80		•						•					•
	HQI-TS 150W ...	RX7s-24	1.80		•						•					•
	HCI-TS 150W ...	RX7s-24	1.80		•						•					•
	HQI-E 150W ...	E27	1.80		•						•					•
	HTI 150W	plug	1.80		•						•					•
	HQI-R 150W ...	plug	1.80		•						•					•
	HCI-E/P 150W/WDL	E27	1.80		•						•					•

Lamp matrix – Metal halide lamps

Metal halide lamps, 250 – 3,500 W Osram				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
250 W	HQI-E 250W/N/SI	E40	2.20			•			•							
	HQI-E 250W ...	E40	3.00		•					•					•	
	HQI-T 250W/N/SI	E40	2.20				•									
	HQI-T 250W ...	E40	3.00			•					•				•	
	HQI-TS 250W ...	Fc2	3.00			•					•				•	
	HQI-E 250W ...	E40	3.00			•					•				•	
	HQI-E/P 250W	E40	3.00			•					•				•	
400 W	HQI-E 400W/N/SI	E40	3.50			•						•				
	HQI-E 400W ...	E40	4.60			•							•			
	HQI-T 400W/N/SI	E40	3.50					•				•				
	HQI-T 400W ...	E40	4.60			•							•			
	HQI-TS 400W ...	Fc2	4.00			•							•			
	HQI-BT 400W	E40	4.00			•							•			
1,000 W	HQI-E 1000W ...	E40	9.50			•									•	
	HQI-T 1000W ...	E40	9.50			•									•	
	HQI-TM 1000W	G22	9.50			•									•	
	HQI-TS 1000W	K12s-36	9.50			•									•	
2,000 W	HQI-T 2000W/D	E40	10.30			•									•	
	HQI-T 2000W/D/I	E40	10.30		integrated										•	
	HQI-T 2000W/N	E40	8.80		integrated										•	
	HQI-T 2000W/N/230 V	E40	16.50			•						•				
	HQI-T 2000W/N/E/SUPER	E40	8.80			•									•	
	HQI-T 2000W/N/SN/SUPER	E40	9.40			•									•	
	HQI-TS 2000W/DS	cable	11.50			•									•	
	HQI-T 2000W/D/400/E40	E40	10.30			•									•	
	HQI-TS 2000W/D/S HF <sup>①</sup>	K12s-36	12.20			•									•	
	HQI-TS 2000W/N/L	K12s-36	10.30			•									•	
	HQI-TS 2000W/D/L	K12s-36	10.30			•									•	
3,500 W	HQI-T 3500W/D	E40	18.00			•								•		

HID magnetic chokes

<sup>①</sup> on request

## Lamp matrix – Metal halide lamps

Metal halide lamps, 35 – 250 W				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
35 W	CDM-R 35W	E27	0.53		•						•					•
	CDM-T 35W	G12	0.53		•						•					•
	CDM-TC 35W	G8.5	0.53		•						•					•
	CDM-R111	Gx5.5	0.53		•						•					•
70 W	MHN-T 70W	PG12-2	1.00		•			•			•					•
	MHN-TD 70W	RX7s	1.00		•			•			•					•
	MHW-TD 70W	RX7s	1.00		•			•			•					•
	CDM-TT 70W	E27	1.00	•				•			•					
	CDM-R 70W	E27	1.00		•			•			•					•
	CDM-ET 70W	E27	1.00	•				•			•					
	CDM-T 70W	G12	1.00		•			•			•					•
	CDM-TD 70W	RX7s	1.00		•			•			•					•
	CDM-TC 70W	G8.5	1.00		•			•			•					•
	CDO-ET 70W	E27	1.00	•				•			•					
	CDO-TT 70W	E27	1.00	•				•			•					
	CDM-Elite TC 70W	G8.5	1.00		•			•			•					•
	CDM-R111	Gx8.5	1.00		•			•			•					•
	100 W	CDO-TT 100W	E40	1.20		•						•				
CDO-ET 100W		E40	1.20		•						•					
150 W	CDM-T 150W ...	G12	1.80		•			•			•					•
	CDM-TD 150W	RX7s	1.80		•			•			•					•
	CDM-TT 150W	E40	1.80		•			•			•					•
	MHN-T 150W	RGx 12-2	1.80		•			•			•					•
	MHW-TD 150W	RX7s	1.80		•			•			•					•
	MHN-TD 150W	RX7s	1.80		•			•			•					•
	MHT-T 150W	RGx 12-2	1.80		•			•			•					•
	CDM-ET 150W	E40	1.80		•			•			•					•
	CDO-ET 150W	E40	1.80		•			•			•					
	CDO-TT 150W	E40	1.80		•			•			•					
250 W	CDM-TT 250W	E40	3.00								•					
	HPI-T 250W	E40	2.15			•			•							
	HPI-T 250W	E40/E45	3.00		•				•			•				
	HPI plus 250W	E40	2.15			•			•							
	HPI plus 250W	E40	3.00			•					•				•	
	HPI-T plus 250W	E40	2.15		•	•			•							
	HPI-T plus 250W	E40	3.00		•						•				•	
	MHN-TD 250W	Fc2	3.00		•						•				•	

Lamp matrix – Metal halide lamps

Metal halide lamps, 400 – 2,000 W Philips				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK	
Wattage	Description	Cap	Current A														
400 W	HPI plus 400W	E40	3.40			•			•			•					
	HPI plus 400W	E40	3.85			•							•				
	HPI plus 400W BUS	E40	3.40	integrated					•			•					
	HPI plus 400W BUS	E40	3.85	integrated									•				
	HPI-T 400W	E40	3.40		•	•			•			•					
	HPI-T plus 400W	E40	3.40		•	•			•			•					
	HPI-T plus 400W	E40	3.85		•	•							•				
1,000 W	HPI-T 1000W	E40/E45	8.25			•						•			•		
2,000 W	HPI-T 2000W/230 V	E40/E45	16.50		•							•					
	HPI-T 2000W/380 V	E40/E45	8.80		•									•			
	MHN-TD 2000W	cable	9.60		•									•			
	MHT-TD 2000W	cable	9.60		•									•			
	MHN-SA 2000W	X830R	11.30		•									•			
	MHN-LA 2000W	X528/C	10.30		•									•			
	MHN-LA 2000W	X528/C	8.30		•									•			
	MHN-SA 1800W	(P)SFC	10.50		•									•			

HID magnetic chokes

## Lamp matrix – Metal halide lamps

Metal halide lamps, 35 – 400 W				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
35 W	RCC-T 35W	G12	0.50		•						•					•
	RCC-TC 35W	G8.5	0.50		•					•						•
	RCC-PAR 35W	E27	0.50		•					•						•
	RCC-E/P 35W	E27	0.50		•					•						•
70 W	RCC-T 70W	G12	1.00		•			•		•						•
	RCC-E/P 70W	E27	1.00		•			•		•						•
	RCC-TS 70W	RX7s	1.00		•			•		•						•
	RCC-TC 70W	G8.5	1.00		•			•		•						•
	HRI-TS 70W	RX7s	1.00		•			•		•						•
	HRI-T 70W	G12	1.00		•			•		•						•
	HRI-E 70W	E27	1.00		•			•		•						•
100 W	RCC-E/P 100W	E27	1.10		•					•						•
	HRI-E 100W	E27	1.10		•					•						•
150 W	RCC-TS 150W	RX7s	1.80		•					•						•
	RCC-T 150W	G12	1.80		•					•						•
	RCC-E/P 150W	E27	1.80		•					•						•
	HRI-TS 150W	RX7s	1.80		•					•						•
	HRI-T 150W	G12	1.80		•					•						•
	HRI-E 150W	E27	1.80		•					•						•
250 W	RCC-TS 250W	Fc2	3.00		•					•					•	
	RCC-T 250W	E40	3.00		•					•					•	
	RCC-TM 250W	G22	3.00		•					•					•	
	RCC-E 250W	E40	3.00		•					•					•	
	HRI-TS 250W	Fc2	3.00		•					•					•	
	HRI-T 250W	E40	3.00		•					•					•	
	HRI-E/P 250W	E40	3.00		•					•					•	
	HRI-E 250W	E40	3.00		•					•					•	
	HRI-E 250W/N/SI	E40	2.20				•			•					•	
	HRI-T 250W/N/SI	E40	2.20				•			•					•	
400 W	HRI-TS 400W	Fc2	4.00		•								•			
	HRI-BT 400W	E40	4.00		•								•			
	HRI-E 400W	E40	4.60		•								•			
	HRI-E 400W/N/SI	E40	3.50				•						•			
	HRI-T 400W/N/SI	E40	3.50				•						•			

## Lamp matrix – Metal halide lamps

Metal halide lamps, 1,000 – 3,500 W Radium				U <sub>ign</sub> = 2.5 kV	U <sub>ign</sub> = 5.0 kV	U <sub>ign</sub> < 1 kV	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
1,000 W	HRI-TS 1000W	K12s-36	9.50		•										•	
	HRI-T 1000W	E40	9.50		•										•	
	HRI-E 1000W	E40	9.50		•										•	
2,000 W	HRI-T 2000W/NSC/400V	E40	8.80		•									•		
	HRI-T 2000W/D/1	E40	10.30	integrated										•		
	HRI-T 2000W/N/1	E40	8.80	integrated										•		
	HRI-T 2000W/D/400/E40	E40	10.30		•									•		
	HRI-TS 2000W/.../S	K12s-36	10.30		•									•		
	HRI-TS 2000W/D/S HF <sup>①</sup>	K12s-36	12.20		•									•		
	HRI-TS 2000W/N/L	K12s-36	10.30		•									•		
	HRI-TS 2000W/D/L	K12s-36	10.30		•									•		
	HRI-TS 2000W/D	E40	10.30		•									•		
3,500 W	HRI-TS 3500W/D	E40	18.00		•									•		

<sup>①</sup> on request

HID magnetic chokes

## Lamp matrix – Metal halide lamps

Metal halide lamps, 70 – 2,000 W Sylvania				$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
70 W	HSI-MP 70W	E27	1.00		•			•			•					
	HSI-T 70W	G12	1.00		•			•			•					•
	HSI-TD 70W	RX7s	1.00		•			•			•					•
	CMI-T 70W/WDL	G12	0.98		•			•			•					•
100 W	HSI-MP 100W ...	E27	1.20		•						•					
	HSI-TD 100W ...	RX7s	1.20		•						•					
	MP 100W/CL	E27	1.15		•						•					
150 W	HSI-TD 150W ...	RX7s	1.80		•						•					•
	HSI-T 150W	G12	1.80		•						•					•
	CMI-T 150W/WDL	G12	1.80		•						•					•
	HSI-MP 150W/3K	E27	1.80		•						•					•
250 W	HSI-TD 250W ...	Fc2	3.00		•						•				•	
	HSI-T 250W/4K	E40	2.15			•		•								
	HSI-T 250W ...	E40	3.00		•						•				•	
400 W	HSI-T 400W/4K	E40	3.25			•		•				•				
	HSI-T 400W ...	Fc2	4.00		•								•			
1,000 W	HSI-T 1000W ...	E40	8.25			•						•			•	
	HSI-T 1000W/4K	E40	8.25			•						•			•	
2,000 W	HSI-T 2000W/380 V	E40	10.30		•									•		

Metal halide lamps, 70 – 400 W Venture				$U_{\text{ign}} = 2.5 \text{ kV}$	$U_{\text{ign}} = 5.0 \text{ kV}$	$U_{\text{ign}} < 1 \text{ kV}$	ECM	ECIS	OMB	OMBS	OMBIS	OGL	OGLS	OGLI	OGLIS	OM PAK
Wattage	Description	Cap	Current A													
70 W	HIE 70W/x/x	E27	1.00		•			•			•					
100 W	HIE 100W/C/U/LU3K	E27	1.20		•						•					
150 W	HIE 150W/x/x	RX7s	1.80		•						•					
	HIT 150W/U/LU/T38/4K	E27	1.80		•						•					
250 W	HIE 250W/x/x/EURO/x	E40	2.15			•		•								
	HIE 250W/x/x	E40	3.00		•			•								
400 W	HIE 400W/x/x/EURO/x	E40	3.20			•		•				•				
	HIE 400W/x	E40	4.00		•								•			



## Compensation matrix

OM				Lamp current (A)	Lambda (A)	Capacitor (µF)	Mains current compensated (A)	EEI	Approvals
Article no.	Wattage (W)	Lamp type	Type						
<b>HM chokes</b>									
20824582	50	HM	OMB 50 A153K 230/240/50 030A066T	0.62	0.41	7.00	0.27	A3	ENEC, CE
22148672	50	HM	OMB 50 A504K 220-240/50 030A098T	0.62	0.41	7.00	0.27	A3	ENEC, CE
22148614	50	HM	OMB 50 A604K 220-240/50 030A098T	0.62	0.41	7.00	0.27	A3	ENEC, CE
20571079	80	HM	OMB 80 A103K 230/240/50 030A092T	0.80	0.49	8.00	0.43	A3	CE
20574671	80	HM	OMB 80 A106K 220-240/60 035A097T	0.80	0.45	8.00	0.43	na	CE
20824609	80	HM	OMB 80 A153K 230/240/50 030A066T	0.80	0.49	8.00	0.43	A3	ENEC, CE
22148710	80	HM	OMB 80 A504K 220-240/50 030A098T	0.80	0.49	8.00	0.43	A3	ENEC, CE
22175093	125	HM	OMB 125 A501K 230/50 045A113T	1.15	0.52	10.00	0.63	A3	ENEC, CE
22148711	125	HM	OMB 125 A504K 220-240/50 045A113T	1.15	0.52	10.00	0.63	A3	CE
22148596	125	HM	OMB 125 A604K 220-240/50 045A113T	1.15	0.52	10.00	0.63	A3	ENEC, CE
22175113	250	HM / HI	OMB 250 A500K 220/50 085A153T	2.15	0.55	18.00	1.25	na	ENEC, CE
22148712	250	HM / HI	OMB 250 A504K 220-240/50 085A153T	2.15	0.55	18.00	1.25	A2	ENEC, CE
22148598	250	HM / HI	OMB 250 A604K 220-240/50 085A153T	2.15	0.55	18.00	1.25	A2	ENEC, CE
22148860	400	HM / HI	OMB 400 A504K 220-240/50 120A188T	3.25	0.57	25.00	2.00	A2	ENEC, CE
22148615	400	HM / HI	OMB 400 A604K 220-240/50 120A188T	3.25	0.56	25.00	2.00	A2	ENEC, CE
20888680	400	HM / HI	OMB 400 B107K 220-240/60 150A212T	3.25	0.57	25.00	2.00	na	CE
<b>HS chokes</b>									
22148876	35	HS / HI	OMBIS 35 A504K 220-240/50 030A098T	0.53	0.37	6.00	0.22	A3	CE
22148862	35	HS / HI	OMBIS 35 A604W 220-240/50 030A098T	0.53	0.34	6.00	0.22	A3	ENEC, CE
20578455	35	HS / HI	OMBIS 35 B101W 230/50 035A097T	0.53	0.36	6.00	0.22	A3	ENEC, CE
20569782	35	HS / HI	OMBIS 35 B103W 230-250/50 035A097T	0.53	0.36	6.00	0.22	A3	ENEC, CE
20824173	35	HS / HI	OMBIS 35 B153W 230-250/50 035A071T	0.53	0.36	6.00	0.22	A3	ENEC, CE
22148600	35	HS / HI	OMBIS 35 B604W 220-240/50 035A103T	0.53	0.36	6.00	0.22	A3	ENEC, CE
20568096	70	HS / HI	OMBIS 70 A101W 230/50 045A107T	1.00	0.37	12.00	0.43	A3	ENEC, CE
20568074	70	HS / HI	OMBIS 70 A103W 230-250/50 045A107T	1.00	0.37	12.00	0.38	A3	ENEC, CE
20574788	70	HS / HI	OMBIS 70 A106W 220-240/60 045A107T	1.00	0.38	10.00	0.38	na	ENEC, CE
20824220	70	HS / HI	OMBIS 70 A153W 230-250/50 045A081T	1.00	0.37	12.00	0.38	A3	ENEC, CE
22148718	70	HS / HI	OMBIS 70 A504K 220-240/50 045A113T	1.00	0.37	12.00	0.43	A3	ENEC, CE
22148680	70	HS / HI	OMBIS 70 A504W 220-240/50 045A113T	1.00	0.37	12.00	0.43	A3	CE
22148623	70	HS / HI	OMBIS 70 A604K 220-240/50 045A113T	1.00	0.37	12.00	0.43	A3	ENEC, CE
22148601	70	HS / HI	OMBIS 70 A604W 220-240/50 045A113T	1.00	0.37	12.00	0.43	A3	ENEC, CE
20575741	70	HS / HI	OMBIS 70 B103W 230-250/50 055A117T	1.00	0.37	12.00	0.38	A3	ENEC, CE
22148804	70	HS / HI	OMBIS 70 B153W 230-250/50 055A091T	1.00	0.37	12.00	0.43	A3	ENEC, CE
22148602	70	HS / HI	OMBIS 70 B604W 220-240/50 055A123T	1.00	0.37	12.00	0.43	A3	ENEC, CE
20820295	70	HS / HI	OMBIS 70 C103W 230-250/50 065A127T	1.00	0.37	12.00	0.43	A3	CE
20824343	70	HS / HI	OMBIS 70 C153W 230-250/50 065A101T	1.00	0.37	12.00	0.43	A3	ENEC, CE
20568891	100	HS / HI	OMBIS 100 A103W 230-250/50 055A117T	1.20	0.40	12.00	0.55	A2	ENEC, CE
20574794	100	HS / HI	OMBIS 100 A106W 220-240/60 055A117T	1.20	0.39	10.00	0.55	na	ENEC, CE
22148805	100	HS / HI	OMBIS 100 A504W 220-240/50 055A123T	1.20	0.40	12.00	0.55	A2	ENEC, CE
22148604	100	HS / HI	OMBIS 100 A604W 220-240/50 055A123T	1.20	0.40	12.00	0.55	A2	ENEC, CE
20570572	100	HS / HI	OMBIS 100 C103W 230-250/50 075A137T	1.20	0.40	12.00	0.55	A2	ENEC, CE

## Compensation matrix

OM				Lamp current (A)	Lambda (λ)	Capacitor (μF)	Mains current compensated (A)	EEI	Approvals
Article no.	Wattage (W)	Lamp type	Type						
<b>HS chokes</b>									
20568879	150	HS / HI	OMBIS 150 A103W 230-250/50 075A137T	1.80	0.42	20.00	0.80	A3	ENEC, CE
20571288	150	HS / HI	OMBIS 150 A106W 220-240/60 075A137T	1.80	0.40	16.00	0.80	na	ENEC, CE
20880440	150	HS / HI	OMBIS 150 A153W 230-250/50 075A111T	1.80	0.42	20.00	0.80	A3	CE
22148719	150	HS / HI	OMBIS 150 A504K 220-240/50 075A143T	1.80	0.42	20.00	0.85	A3	ENEC, CE
22148782	150	HS / HI	OMBIS 150 A504W 220-240/50 075A143T	1.80	0.42	20.00	0.85	A3	ENEC, CE
22148629	150	HS / HI	OMBIS 150 A604K 220-240/50 075A143T	1.80	0.42	20.00	0.85	A3	ENEC, CE
22148606	150	HS / HI	OMBIS 150 A604W 220-240/50 075A143T	1.80	0.42	20.00	0.80	A3	ENEC, CE
20568863	150	HS / HI	OMBIS 150 B103W 230-250/50 085A147T	1.80	0.40	20.00	0.85	A3	ENEC, CE
20824456	150	HS / HI	OMBIS 150 B151W 230/50 085A121T	1.80	0.40	20.00	0.85	A3	ENEC, CE
20824469	150	HS / HI	OMBIS 150 B153W 230-250/50 085A121T	1.80	0.40	20.00	0.80	A3	ENEC, CE
22148607	150	HS / HI	OMBIS 150 B604W 220-240/50 085A153T	1.80	0.40	20.00	0.80	A3	ENEC, CE
20824504	150	HS / HI	OMBIS 150 C153W 230-250/50 105A141T	1.80	0.40	20.00	0.80	A3	ENEC, CE
22175139	150	HS / HI	OMBIS 150 Z501K 230/50 065A133T	1.80	0.42	20.00	0.80	A3	CE
20824891	250	HS / HI	OMBIS 250 A153W 230-250/50 150A186T	3.00	0.40	32.00	1.35	A3	CE
22175116	250	HS / HI	OMBIS 250 Z502K 240/50 120A188T	3.00	0.40	32.00	1.35	na	CE
22175072	250	HS / HI	OMBIS 250 Z504K 220-240/50 120A188T	3.00	0.40	32.00	1.35	A3	CE
22175029	250	HS / HI	OMBIS 250 Z505K 220/50 120A188T	3.00	0.40	32.00	1.35	na	ENEC, CE
22149045	250	HS / HI	OMBIS 250 Z604W 220-240/50 120A188T	3.00	0.40	32.00	1.35	A3	ENEC, CE
20575656	250 1/2	HS / HI	OMBIS 1/2 250 B103W 230-250/50 085A147T	3.00	0.40	32.00	1.35	A3	ENEC, CE
<b>HS chokes</b>									
22175084	50	HS	OMBS 50 A504W 220-240/50 035A103T	0.76	0.35	10.00	0.30	A3	ENEC, CE
22148616	50	HS	OMBS 50 A604W 220-240/50 035A103T	0.76	0.35	10.00	0.30	A3	ENEC, CE
<b>HS chokes with reinforced insulation</b>									
22148980	35	HS / HI	OMBIS 35 A203D 230-250/50 030A092T	0.53	0.37	6.00	0.22	A3	ENEC, CE
22148982	70	HS / HI	OMBIS 70 A203D 230-250/50 045A107T	1.00	0.37	12.00	0.43	A3	ENEC, CE
22148985	70	HS / HI	OMBIS 70 A253D 230-250/50 045A081T	1.00	0.37	12.00	0.38	A3	ENEC, CE
22148971	100	HS / HI	OMBIS 100 A203D 230-250/50 055A117T	1.20	0.40	12.00	0.55	A2	ENEC, CE
22148972	150	HS / HI	OMBIS 150 A204D 220-240/50 075A137T	1.80	0.42	20.00	0.80	A3	CE
22148973	150	HS / HI	OMBIS 150 B253D 230-250/50 085A121T	1.80	0.41	20.00	0.80	A3	ENEC, CE
<b>HM chokes with reinforced insulation and power tapping</b>									
22148967	80/50	HM	OMB 80/50 A201B 230/50 035A097T	0.80 / 0.62	0.49 / 0.41	8.00	0.43	A3	ENEC, CE
22148968	80/50	HM	OMB 80/50 A211B 230/50 035A117T	0.80 / 0.62	0.49 / 0.41	8.00	0.43	A3	ENEC, CE
22148960	125/80	HM	OMB 125/80 A251B 230/50 055A091T	1.15 / 0.80	0.52 / 0.48	10.00	0.63	A3	ENEC, CE
<b>HS chokes with reinforced insulation and power tapping</b>									
22148992	50/35	HS	OMBS 50/35 A201D 230/50 045A107T	0.76 / 0.53	0.37 / 0.37	10.00	0.30	A3	ENEC, CE
22148993	50/35	HS	OMBS 50/35 A251D 230/50 045A081T	0.76 / 0.53	0.37 / 0.37	10.00	0.30	A3	ENEC, CE
22148994	70/50	HS	OMBS 70/50 A201D 230/50 055A117T	1.00 / 0.76	0.34 / 0.35	12.00	0.43	A3	ENEC, CE
22148996	70/50	HS	OMBS 70/50 A251D 230/50 055A091T	1.00 / 0.76	0.34 / 0.35	12.00	0.38	A3	ENEC, CE
22148988	100/70	HS	OMBS 100/70 A251D 230/50 065A101T	1.20 / 1.00	0.40 / 0.33	12.00	0.55	A3	ENEC, CE
22148989	150/100	HS	OMBS 150/100 A201D 230/50 105A167T	1.80 / 1.20	0.41 / 0.41	20.00	0.80	A3	ENEC, CE
22148990	150/100	HS	OMBS 150/100 A251D 230/50 105A141T	1.80 / 1.20	0.41 / 0.39	20.00	0.80	A3	ENEC, CE

## Compensation matrix

OM				Lamp current (A)	Lambda (λ)	Capacitor (μF)	Mains current compensated (A)	EEI	Approvals
Article no.	Wattage (W)	Lamp type	Type						
<b>HM chokes with power tapping</b>									
20574609	80/50	HM	OMB 80/50 A103K 230-240/50 035A097T	0.80 / 0.62	0.49 / 0.41	8.00	0.43	A3	CE
20824624	80/50	HM	OMB 80/50 A153K 230/240/50 035A071T	0.80 / 0.62	0.49 / 0.41	8.00	0.43	A3	ENEC, CE
22148695	80/50	HM	OMB 80/50 A503K 230/240/50 035A103T	0.80 / 0.62	0.49 / 0.41	8.00	0.43	A3	ENEC, CE
22148595	80/50	HM	OMB 80/50 A603K 230/240/50 035A103T	0.80 / 0.62	0.49 / 0.41	8.00	0.43	A3	ENEC, CE
20574618	125/80	HM	OMB 125/80 A103K 230-240/50 055A117T	1.15 / 0.80	0.52 / 0.48	10.00	0.63	A3	ENEC, CE
22148671	125/80	HM	OMB 125/80 A503K 230/240/50 055A123T	1.15 / 0.80	0.52 / 0.48	10.00	0.63	A3	ENEC, CE
22158552	125/80	HM	OMB 125/80 A603K 230/240/50 055A123HL	1.15 / 0.80	0.52 / 0.48	10.00	0.63	A3	ENEC, CE
22148861	125/80	HM	OMB 125/80 Z603K 230/240/50 045A113T	1.15 / 0.80	0.57 / 0.50	10.00	0.63	A3	ENEC, CE
<b>HS chokes with power tapping</b>									
22118832	50/35	HS	OMBS 50/35 A603W 230/240/50 045A113PL	0.76 / 0.53	0.37	10.00	0.30	A3	ENEC, CE
20885000	70/50	HS	OMBS 70/50 A103W 230/240/50 055A117T	1.00 / 0.76	0.34 / 0.35	12.00	0.38	A3	ENEC, CE
22175085	70/50	HS	OMBS 70/50 A503W 230/240/50 055A123T	1.00 / 0.76	0.34 / 0.35	12.00	0.43	A3	ENEC, CE
22148603	70/50	HS	OMBS 70/50 A603W 230/240/50 055A123T	1.00 / 0.76	0.34 / 0.35	12.00	0.43	A3	ENEC, CE
22158510	70/50	HS	OMBS 70/50 Z603W 230/240/50 045A113T	1.00 / 0.76	0.38 / 0.34	12.00	0.38	A3	ENEC, CE
22148581	70/50	HS	OMBS 70/50 Z603W 230/240/50 045A113HL	1.00 / 0.76	0.38 / 0.34	12.00	0.38	A3	ENEC, CE
20885066	100/70	HS	OMBS 100/70 A153W 230/240/50 065A101T	1.20 / 1.00	0.40 / 0.33	12.00	0.55	A3	CE
22175086	100/70	HS	OMBS 100/70 A503W 230/240/50 065A133T	1.20 / 1.00	0.40 / 0.33	12.00	0.55	A3	CE
22148605	100/70	HS	OMBS 100/70 A603W 230/240/50 065A133T	1.20 / 1.00	0.40 / 0.33	12.00	0.55	A3	ENEC, CE
20885094	150/100	HS	OMBS 150/100 A103W 230/240/50 105A167T	1.80 / 1.20	0.41 / 0.39	20.00	0.80	A3	ENEC, CE
20885109	150/100	HS	OMBS 150/100 A153W 230/240/50 105A141T	1.80 / 1.20	0.41 / 0.39	20.00	0.80	A3	ENEC, CE
22175087	150/100	HS	OMBS 150/100 A503W 230/240/50 105A173T	1.80 / 1.20	0.41 / 0.39	20.00	0.80	A3	CE
22148608	150/100	HS	OMBS 150/100 A603W 230/240/50 105A173T	1.80 / 1.20	0.41 / 0.39	20.00	0.80	A3	ENEC, CE
<b>HS chokes with pulser tapping</b>									
22148609	35	HS / HI	OMBIS 35 PB503W 230/240/50 035A103T	0.53	0.36	6.00	0.22	A3	ENEC, CE
22158567	50	HS	OMBS 50 PA503W 230/240/50 035A103	0.76	0.35	10.00	0.30	A3	CE
22158564	70	HS	OMBS 70 PA503W 230/240/50 045A113HL	1.00	0.37	12.00	0.43	A3	ENEC, CE
22148611	70	HS	OMBS 70 PA503W 230/240/50 045A113T	1.00	0.37	12.00	0.38	A3	ENEC, CE
22158576	70	HI	OMBI 70 PA503W 230/240/50 045A113HL	1.00	0.37	12.00	0.43	A3	CE
22148610	70	HI	OMBI 70 PA503W 230/240/50 045A113T	1.00	0.37	12.00	0.43	A3	ENEC, CE
22148612	100	HS / HI	OMBIS 100 PA503W 230/240/50 055A123T	1.20	0.40	12.00	0.55	A2	ENEC, CE
22158566	100	HS / HI	OMBIS 100 PA503W 230/240/50 055A123HL	1.20	0.40	12.00	0.55	A2	ENEC, CE
22149207	150	HS / HI	OMBIS 150 PA503W 230/240/50 075A143HL	1.80	0.42	20.00	0.85	A3	ENEC, CE
22148613	150	HS / HI	OMBIS 150 PB503W 230/240/50 085A153T	1.80	0.40	20.00	0.80	A3	ENEC, CE
22158565	150	HS / HI	OMBIS 150 PB503W 230/240/50 085A153HL	1.80	0.40	20.00	0.85	A3	ENEC, CE
22149230	250	HS / HI	OMBIS 250 PZ503W 230/240/50 120A188HL	3.00	0.40	32.00	1.35	A3	CE
<b>Chokes for SON-SDW lamps</b>									
20823181	35	HS	OMB SDW 35 B153W 220-240/50 035A071T	0.48	0.36	6.00	0.19	A2	ENEC, CE
20881229	50	HS	OMB SDW 50 B153W 220-240/50 040A076T	0.78	0.33	8.00	0.30	A3	CE
20823207	100	HS	OMB SDW 100 B153W 220-240/50 075A111T	1.35	0.36	14.00	0.55	A3	ENEC, CE

## Compensation matrix

OG				Lamp current (A)	Lambda (λ)	Capacitor (μF)	Mains current compensated (A)	EEI	Approvals
Article no.	Wattage (W)	Lamp type	Type						
<b>HM chokes</b>									
20296024	250	HM	OGL 250W 30 220-240/50 030A084	2.15	0.55	18.00	1.25	A2	ENEC, CE
89121845	400	HM	OGL 400 C044K 220-240/50 040V130PL	3.25	0.57	25.00	2.00	A2	ENEC, CE
20296030	400	HM	OGL 400W 40 220-240/50 040A094	3.25	0.55	25.00	2.00	A2	ENEC, CE
20294541	700	HM	OGL 700W 80 220-240/50 080A134	5.40	0.59	40.00	3.60	A2	ENEC, CE
20295043	1,000	HM	OGL 1000W 120 220-240/50 120B174	7.50	0.61	60.00	4.60	A2	ENEC, CE
<b>HI chokes</b>									
20295037	2,000	HI	OGLI 2000W 160 380-415/50 160B214	8.80	0.59	37.00	6.00	na	ENEC, CE
20566616	2,000	HI	OGLI 2000W 180 380-415/50 180B234	10.30	0.51	60.00	6.00	na	CE
20563406	2,000	HI	OGLI 2000W 180 380-415/60 180B234VG	10.30	0.53	60.00	6.00	na	ENEC, CE
20882285	2,000	HI	OGLI 2000W 210 380-420/50 210B268HL	10.30	0.56	60.00	6.00	na	ENEC, CE
<b>HS chokes</b>									
89121836	250	HS / HI	OGLIS 250 C044W 220-240/50 040V130PL	3.00	0.39	32.00	1.35	A2	ENEC, CE
20562752	250	HS / HI	OGLIS 250W 40 230-250/50 040A094 TP	3.00	0.39	32.00	1.35	A2	ENEC, CE
89121840	400	HS / HI	OGLS 400 C044W 220-240/50 060V150	4.45	0.41	50.00	1.97	A2	ENEC, CE
20820138	400	HS / HI	OGLS 400W 60 220-240/50 060A114 TP	4.45	0.41	50.00	1.97	A2	CE
20565518	400	HS / HI	OGLS 400W 60 220-240/60 060A114	4.45	0.42	50.00	1.00	na	ENEC, CE
89121976	600	HS	OGLS 600 A046W 380-415/50 080V170	3.60	0.47	20.00	1.76	na	CE
22175019	600	HS	OGLS 600 A026W 380-415/50 080A134	3.60	0.47	20.00	1.76	na	CE
20821091	600	HS	OGLS 600W 80 220-240/60 080A134	6.20	0.42	60.00	3.10	na	ENEC, CE
20882197	600	HS	OGLS 600W 100 220-240/50 100B154 TP	6.20	0.43	60.00	3.10	A2	ENEC, CE
22148490	1,000	HS / HI	OGLIS 1000 A024W 220-240/50 140A194	10.30	0.45	85.00	5.10	A2	ENEC, CE
20880891	1,000	HS / HI	OGLIS 1000W 140 220-240/60 140B194	10.30	0.43	100.00	5.10	na	CE
<b>HS chokes with reinforced insulation</b>									
22149035	250	HS / HI	OGLIS 250 C203D 230-250/50 040A094	3.00	0.39	32.00	1.35	A2	ENEC, CE
22149038	400	HS / HI	OGLS 400 C203D 230-250/50 060A114	4.45	0.37	50.00	1.97	A2	ENEC, CE
<b>HS chokes with power tapping</b>									
89121864	250/150	HS	OGLS 250/150 C043W 230/240/50 060V150	3.00 / 1.80	0.37 / 0.41	32.00	1.35	A2	ENEC, CE
89121865	400/250	HS	OGLS 400/250 C043W 230/240/50 080V170	4.45 / 3.00	0.38 / 0.36	50.00	1.97	A2	ENEC, CE
<b>HS chokes with pulser tapping</b>									
22149231	250	HS / HI	OGLIS 250 PC023W 230/240/50 040A094	3.00	0.39	32.00	1.35	A3	CE
89121873	400	HS / HI	OGLS 400 PC043W 230/240/50 060V150HL	4.45	0.41	45.00	2.10	A2	ENEC, CE
89121866	400	HI	OGLI 400 PC043W 230/240/50 050V140	4.45	0.46	35.00	2.10	A2	ENEC, CE
22148645	1,000	HS / HI	OGLIS 1000 PC023W 230/240/50 180B234HL	10.30	0.43	100.00	5.10	A2	ENEC, CE
22175007	2,000	HI	OGLI 2000 PC026K 380/400/50 210B268HL	10.30	0.47	37.00	6.00	na	CE
22175009	2,000	HI	OGLI 2000 PC027K 360-400/50 210B268VGH	10.30	0.63	37.00	6.00	na	CE
<b>EC</b>									
Article no.	Wattage (W)	Lamp type	Type	Lamp current (A)	Lambda (λ)	Capacitor (μF)	Mains current compensated (A)	EEI	Approvals
<b>HM chokes</b>									
20569741	50	HM	ECM 50 A90 230/50 090A165	0.62	0.45	7.00	0.27	A3	ENEC, CE
22175043	80	HM	ECM 80 A140 230/50 140A231	0.80	0.51	8.00	0.43	A3	CE
<b>HS chokes</b>									
20566187	35	HS / HI	ECIS 35 C90 230-250/50 090B165 TP	0.53	0.40	6.00	0.22	A3	ENEC, CE
20566335	70	HS / HI	ECIS 70 A140 230-250/50 140B215 TP	1.00	0.35	12.00	0.38	A3	ENEC, CE

## Magnetic chokes for high-intensity discharge lamps

EC, OM and OG magnetic chokes from Tridonic are robust and extremely cost-effective solutions with long lives. In these chokes the impedance is matched to the particular lamp type so mercury vapour lamps, sodium lamps and metal halide lamps are guaranteed to operate according to the manufacturers' specifications and achieve their maximum luminous flux.

Mercury vapour lamps are operated with chokes without additional ignitors. There is also no need for thermal protection as there is no rectifier effect when the lamps come to the end of their lives.

Apart from a choke, sodium lamps – like most metal halide lamps without integrated starters – need an ignitor to provide the ignition pulse to start them. Because of the rectifier effect when the lamp comes to the end of its life the chokes have to have thermal protection.

The EC, OM and OG chokes are characterised by extremely low power consumption, compact windings and minimal leakage field – and therefore very low noise. The result is a high level of efficiency. Small dimensions and high-quality materials complement their application-related properties.

### Application-oriented design

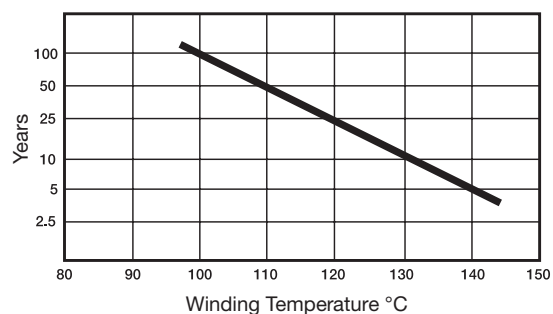
Magnetic chokes from Tridonic are available in single or multi-voltage versions. With up to three voltage taps in the OM family and up to five in the OG series there are major benefits for luminaire manufacturers because luminaires equipped with these chokes can be used for different mains voltages in different countries.

Chokes with pulse taps are optimised to operate in conjunction with pulse ignitors from Tridonic. These chokes supply very high ignition energy and are also designed for high ignition voltage, resulting in high levels of reliability. Chokes with power taps are suitable for street lighting that switch at certain times to energy-saving settings.

Chokes with reinforced insulation for protection class II luminaires have compact designs because Tridonic uses high-quality insulation inside the core. All the versions have a reversible thermal protector rated at 155 °C and a thermal cutout that triggers at 214 °C. The cutout is located in the chokes to ensure reliable thermal contact and rapid triggering.

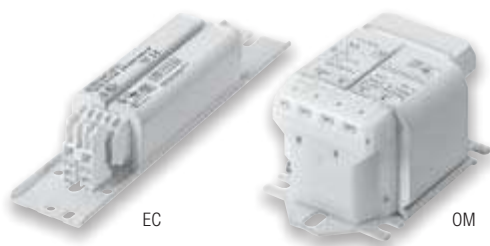
### Design for long life

Because of their high-quality insulation material, coil core and copper wire, chokes in the EC, OM and OG series from Tridonic achieve a maximum life of approximately 100,000 hours of operation, in other words about ten years of constant use at a winding temperature of 130 °C ( $t_w = 130$  °C). The winding temperature is the ambient temperature plus the increase in temperature due to the power consumption of the unit. A change in temperature of 10 °C down or up leads to a doubling or halving of the life of the unit.



### Constant high quality

Consistent high quality and reliability of magnetic chokes from Tridonic is guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture also ensures constant reproducible quality. All the chokes are subjected to 100 % final testing and safety testing.



### Type series EC

Because of their small dimensions (41 x 31 mm), magnetic chokes of type series EC are particularly useful if they have to be installed in small cross-sections, such as tube systems. The range covers the operation of high-intensity discharge lamps with wattages up to 150 W. EC units are available with a core length of 90 to 160 mm and with either screw or plug-in terminals.

### Type series OM

Magnetic chokes in the OM series are suitable for operating mercury vapour lamps, sodium lamps and metal halide lamps with wattages from 35 to 400 W. Their compact design makes them ideal for stylish luminaires. The plug-in terminals enable connections to be made quickly and reliably; voltage taps are also easy to select. Versions with various footplates and different mounting options are also available. The cross-section of the OM series is 65 x 47 mm for core lengths of 30 to 150 mm.



### Type series OG

Chokes in the OG series are suitable for high-intensity discharge lamps in the high-wattage range from 250 to 3,500 W. With a width of 107 mm, a height of 78, 90 or 106 mm and core lengths between 30 and 210 mm, the OG units are designed for high efficiency and low self-heating. The screw terminals are suitable for wire cross-sections from 1 to 4 mm<sup>2</sup> and from 1 to 6 mm<sup>2</sup>.

### Standards and approval marks

Magnetic chokes for HID lamps from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electro-magnetic compatibility (EMC).

### Lamp matrix

Which control gear for which lamp?  
The latest lamp matrix is available on the internet:  
[www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Lamp matrix"

### Technical information

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Data sheets"

## Supply units for high-intensity discharge lamps

The OM PAK supply units from Tridonic combine choke, ignitor, p.f. correction capacitor and terminals in a compact casing. These independent units in protection class II are very easy to install. No tools are needed at all, so they save an enormous amount of time on site.

All the supply units for operating metal halide lamps or sodium lamps are temperature-protected and are suitable for mounting on normally flammable material (fire category F). The units are preset at the factory for maximum possible voltage tapping. This can be adjusted to the actual supply voltage without the need for any tools.

The robust design also means that the units can be used at high ambient temperatures ( $t_a$ ). The compact casing design results in exceptionally quiet operation.

The supply units are available with or without pre-wired lamp cables. Screwless terminals make it easier to connect to the mains. Quick fastening of the terminal covers and tool-less cable clamps add-up to efficient installation.



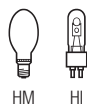
The ignitors used are an essential quality feature of the OM PAK series from Tridonic. There is a choice of two superimposed-pulse ignitors – the successful standard ZRM ES/C ignitor or the ZRM/CT ignitor with digital timer and pulse-pause operation.

With these different versions Tridonic presents a rounded application-oriented range of OM PAK supply units ensuring that high-intensity discharge lamps are operated in accordance with manufacturers' specifications.



OM PAK 70 B533





## OMB 50 – 400 W OM PRO, push-in terminal

High-pressure mercury and metal halide lamps

### Product description

- Magnetic ballast
- For mercury vapour lamps and metal halide lamps
- Chokes with reversible thermal cutout: trigger temperature 155 °C
- Additional types on request

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

### Technical data

Max. winding temperature tw	130 °C
Push-in terminal	0.5 – 1.5 mm <sup>2</sup>

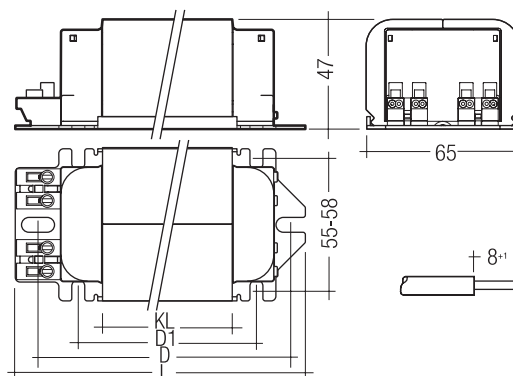


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Suitable ignitors, page 235

Wiring diagrams and installation examples, page 257



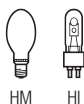
### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OMB 50 A604K 220-240/50 030A098T	22148614	10 pieces	480 pieces	0.80 kg
OMB 125 A604K 220-240/50 045A113T	22148596	10 pieces	480 pieces	1.20 kg
OMB 250 A604K 220-240/50 085A153T	22148598	10 pieces	480 pieces	2.00 kg
OMB 400 A604K 220-240/50 120A188T	22148615	6 pieces	240 pieces	2.80 kg
<b>Ballasts with power tapping</b>				
OMB 80/50 A603K 230/240/50 035A103T	22148595	10 pieces	480 pieces	0.90 kg
OMB 125/80 A603K 230/240/50 055A123HL	22158552	315 pieces	315 pieces	1.37 kg
OMB 125/80 Z603K 230/240/50 045A113T	22148861	10 pieces	480 pieces	1.14 kg

### Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
										Hole spacing D	Hole spacing D1			
<b>Ballasts in standard design</b>														
50 W	HM / HI	0.62 A	OMB 50 A604K	22148614	220 / 230 / 240 V	50 Hz	A3	no	98 mm	75 – 84 mm	50.5 mm	30 mm	60 K	8.6 W
125 W	HM	1.15 A	OMB 125 A604K	22148596	220 / 230 / 240 V	50 Hz	A3	no	113 mm	90 – 99 mm	65.5 mm	45 mm	65 K	12.4 W
250 W	HM / HI	2.15 A	OMB 250 A604K	22148598	220 / 230 / 240 V	50 Hz	A2	no	153 mm	130 – 139 mm	105.5 mm	85 mm	70 K	22.1 W
400 W	HM / HI	3.25 A	OMB 400 A604K	22148615	220 / 230 / 240 V	50 Hz	A2	no	188 mm	165 – 174 mm	140.5 mm	120 mm	75 K	35.4 W
<b>Ballasts with power tapping</b>														
80 / 50 W	HM	0.80 / 0.62 A	OMB 80/50 A603K	22148595	230 / 240 V	50 Hz	A3	no	103 mm	80 – 89 mm	55.5 mm	35 mm	70 / 50 K	11.6 / 8.8 W
125 / 80 W	HM	1.15 / 0.80 A	OMB 125/80 A603K	22158552	230 / 240 V	50 Hz	A3	no	123 mm	100 – 109 mm	75.5 mm	55 mm	60 / 40 K	14.6 / 9.3 W
125 / 80 W	HM	1.15 / 0.80 A	OMB 125/80 Z603K	22148861	230 / 240 V	50 Hz	A3	no	113 mm	90 – 99 mm	65.5 mm	45 mm	85 / 60 K	17.5 / 10.4 W





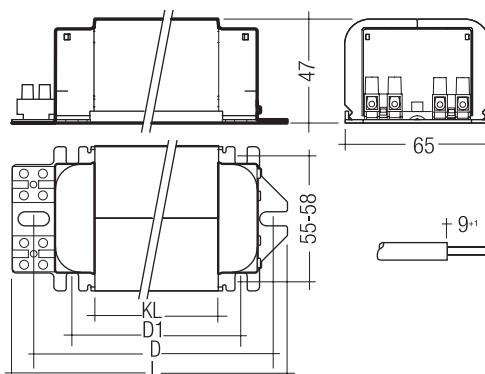
**OMB 50 – 400 W OM PRO, screw terminal**  
High-pressure mercury and metal halide lamps

**Product description**

- Magnetic ballast
  - For mercury vapour lamps and metal halide lamps
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Max. winding temperature tw	130 °C
Screw terminal	0.75 – 2.5 mm <sup>2</sup>



Lamp matrix, page 180

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HID magnetic chokes

**Ordering data**

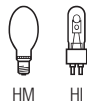
Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OMB 50 A504K 220-240/50 030A098T	22148672	10 pieces	480 pieces	0.85 kg
OMB 80 A504K 220-240/50 030A098T	22148710	10 pieces	480 pieces	0.82 kg
OMB 125 A501K 230/50 045A113T	22175093	10 pieces	480 pieces	1.18 kg
OMB 125 A504K 220-240/50 045A113T	22148711	10 pieces	480 pieces	1.18 kg
OMB 250 A500K 220/50 085A153T	22175113	10 pieces	240 pieces	2.04 kg
OMB 250 A504K 220-240/50 085A153T	22148712	10 pieces	240 pieces	2.04 kg
OMB 400 A504K 220-240/50 120A188T	22148860	6 pieces	240 pieces	2.77 kg
<b>Ballasts with power tapping</b>				
OMB 80/50 A503K 230/240/50 035A103T	22148695	10 pieces	480 pieces	0.95 kg
OMB 125/80 A503K 230/240/50 055A123T	22148671	10 pieces	480 pieces	1.37 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEI	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
										Hole spacing D	Hole spacing D1			
<b>Ballasts in standard design</b>														
50 W	HM	0.62 A	OMB 50 A504K	22148672	220 / 230 / 240 V	50 Hz	A3	no	98 mm	77 – 88 mm	50.5 mm	30 mm	60 K	8.6 W
80 W	HM	0.80 A	OMB 80 A504K	22148710	220 / 230 / 240 V	50 Hz	A3	no	98 mm	75 – 84 mm	50.5 mm	30 mm	65 K	11.8 W
125 W	HM	1.15 A	OMB 125 A501K	22175093	230 V	50 Hz	A3	no	113 mm	90 – 99 mm	65.5 mm	45 mm	60 K	12.3 W
125 W	HM	1.15 A	OMB 125 A504K	22148711	220 / 230 / 240 V	50 Hz	A3	no	113 mm	90 – 99 mm	65.5 mm	45 mm	65 K	13.6 W
250 W	HM / HI	2.15 A	OMB 250 A500K	22175113	220 V	50 Hz	–	no	153 mm	130 – 139 mm	105.5 mm	85 mm	70 K	19.5 W
250 W	HM / HI	2.15 A	OMB 250 A504K	22148712	220 / 230 / 240 V	50 Hz	A2	no	153 mm	130 – 139 mm	105.5 mm	85 mm	70 K	21.7 W
400 W	HM / HI	3.25 A	OMB 400 A504K	22148860	220 / 230 / 240 V	50 Hz	A2	no	188 mm	165 – 174 mm	140.5 mm	120 mm	75 K	35.4 W
<b>Ballasts with power tapping</b>														
80 / 50 W	HM	0.80 / 0.62 A	OMB 80/50 A503K	22148695	230 / 240 V	50 Hz	A3	no	103 mm	80 – 89 mm	55.5 mm	35 mm	70 / 50 K	11.6 / 8.8 W
125 / 80 W	HM	1.15 / 0.80 A	OMB 125/80 A503K	22148671	230 / 240 V	50 Hz	A3	no	123 mm	100 – 109 mm	75.5 mm	55 mm	60 / 40 K	14.6 / 9.3 W



Only for devices with double insulation:



## OMB 50 – 400 W Vario 6-point

High-pressure mercury and metal halide lamps

### Product description

- Magnetic ballast
  - For mercury vapour lamps and metal halide lamps
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
  - Device with double insulation:
    - irreversible thermal cutout, trigger temperature 214 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



### Technical data

Max. winding temperature tw	130 °C
Push-in terminal	0.75 – 2.5 mm <sup>2</sup>

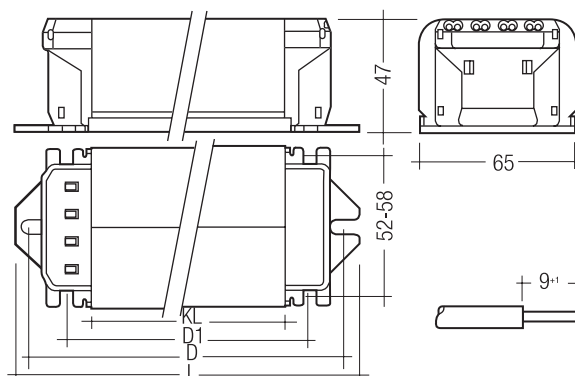


Lamp matrix, page 180

Compensation matrix, page 195

Suitable ignitors, page 235

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### Ordering data

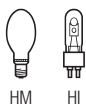
Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OMB 80 A103K 230/240/50 030A092T	20571079	10 pieces	480 pieces	0.8 kg
<b>Ballasts with power tapping</b>				
OMB 80/50 A103K 230/240/50 035A097T	20574609	10 pieces	480 pieces	0.9 kg
OMB 125/80 A103K 230/240/50 055A117T	20574618	10 pieces	480 pieces	1.4 kg
<b>Ballasts with double insulation and power tapping</b>				
OMB 80/50 A201B 230/50 035A097T	22148967	10 pieces	480 pieces	0.6 kg
OMB 80/50 A211B 230/50 035A117T	22148968	10 pieces	480 pieces	0.9 kg
<b>Ballasts for 60 Hz</b>				
OMB 80 A106K 220-240/60 035A097T	20574671	10 pieces	480 pieces	0.8 kg
OMB 400 B107K 220-240/60 150A212T	20888680	6 pieces	240 pieces	3.4 kg

### Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
										Hole spacing D	Hole spacing D1			
<b>Ballasts in standard design</b>														
80 W	HM	0.80 A	OMB 80 A103K	20571079	230 / 240 V	50 Hz	A3	no	92 mm	75 – 84 mm	50.5 mm	30 mm	65 K	11.4 W
<b>Ballasts with power tapping</b>														
80 / 50 W	HM	0.80 / 0.62 A	OMB 80/50 A103K	20574609	230 / 240 V	50 Hz	A3	no	97 mm	80 – 89 mm	55.5 mm	35 mm	70 / 50 K	11.6 / 8.8 W
125 / 80 W	HM	1.15 / 0.80 A	OMB 125/80 A103K	20574618	230 / 240 V	50 Hz	A3	no	117 mm	100 – 109 mm	75.5 mm	55 mm	70 / 50 K	14.2 / 8.9 W
<b>Ballasts with double insulation and power tapping</b>														
80 / 50 W	HM	0.80 / 0.62 A	OMB 80/50 A201B	22148967	230 V	50 Hz	A3	yes	97 mm	80 – 89 mm	55.5 mm	35 mm	70 / 65 K	11.1 / 8.4 W
80 / 50 W	HM	0.80 / 0.62 A	OMB 80/50 A211B	22148968	230 V	50 Hz	A3	yes	117 mm	100 – 109 mm	75.5 mm	35 mm	65 / 50 K	11.1 / 8.4 W
<b>Ballasts for 60 Hz</b>														
80 W	HM	0.80 A	OMB 80 A106K	20574671	220 / 230 / 240 V	60 Hz	–	no	92 mm	75 – 84 mm	50.5 mm	30 mm	65 K	10.5 W
400 W	HM / HI	3.25 A	OMB 400 B107K	20888680	220 / 230 / 240 V	60 Hz	–	no	212 mm	195 – 204 mm	170.5 mm	150 mm	65 K	25.4 W



Only for devices with double insulation:



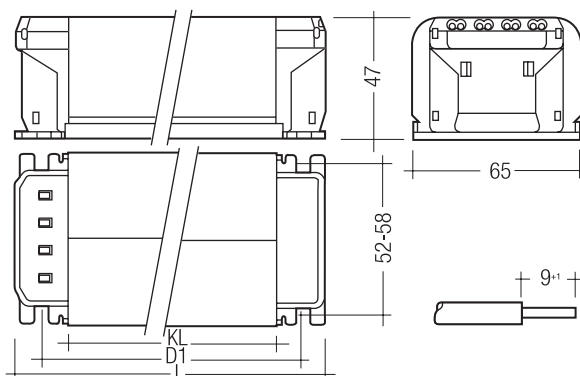
**OMB 50 – 400 W Vario 4-point**  
High-pressure mercury and metal halide lamps

**Product description**

- Magnetic ballast
  - For mercury vapour lamps and metal halide lamps
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
  - Device with double insulation: irreversible thermal cutout, trigger temperature 214 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Max. winding temperature tw	130 °C
Push-in terminal	0.75 – 2.5 mm <sup>2</sup>



Lamp matrix, page 180

Compensation matrix, page 195

Suitable ignitors, page 235

Wiring diagrams and installation examples, page 257

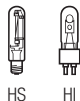
**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OMB 50 A153K 230/240/50 030A066T	20824582	10 pieces	480 pieces	0.8 kg
OMB 80 A153K 230/240/50 030A066T	20824609	10 pieces	480 pieces	0.8 kg
<b>Ballasts with power tapping</b>				
OMB 80/50 A153K 230/240/50 035A071T	20824624	10 pieces	480 pieces	0.9 kg
<b>Ballasts with double insulation and power tapping</b>				
OMB 125/80 A251B 230/50 055A091T	22148960	480 pieces	480 pieces	1.3 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions Hole spacing D1	Core length KL	ΔT	Losses
<b>Ballasts in standard design</b>													
50 W	HM / HI	0.62 A	OMB 50 A153K	20824582	230 / 240 V	50 Hz	A3	no	66 mm	50.5 mm	30 mm	60 K	8.6 W
80 W	HM	0.80 A	OMB 80 A153K	20824609	230 / 240 V	50 Hz	A3	no	66 mm	50.5 mm	30 mm	65 K	11.4 W
<b>Ballasts with power tapping</b>													
80 / 50 W	HM	0.80 / 0.62 A	OMB 80/50 A153K	20824624	230 / 240 V	50 Hz	A3	no	71 mm	55.5 mm	35 mm	70 / 50 K	11.6 / 8.8 W
<b>Ballasts with double insulation and power tapping</b>													
125 / 80 W	HM	1.15 / 0.80 A	OMB 125/80 A251B	22148960	230 V	50 Hz	A3	yes	91 mm	75.5 mm	55 mm	60 / 40 K	13.1 / 8.3 W

HID magnetic chokes



### OMBIS 35 – 150 W OM PRO, push-in terminal

High-pressure sodium and metal halide lamps

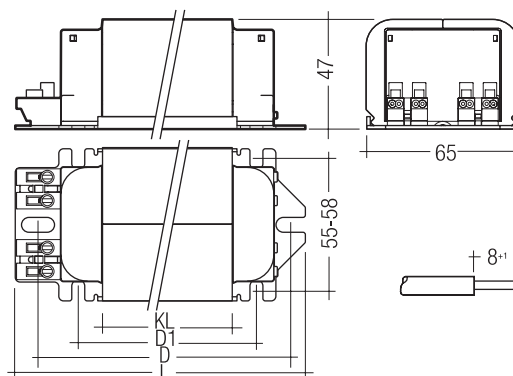
#### Product description

- Magnetic ballast
- For sodium lamps and metal halide lamps
- Chokes with reversible thermal cutout: trigger temperature 155 °C
- Additional types on request

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

#### Technical data

Max. winding temperature tw	130 °C
Push-in terminal	0.5 – 1.5 mm <sup>2</sup>



Lamp matrix, page 180

Compensation matrix, page 195

Suitable ignitors, page 235

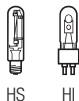
Wiring diagrams and installation examples, page 257

#### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OMBIS 35 A604W 220-240/50 030A098T	22148862	10 pieces	480 pieces	0.85 kg
OMBIS 35 B604W 220-240/50 035A103T	22148600	10 pieces	480 pieces	0.96 kg
OMBS 50 A604W 220-240/50 035A103T	22148616	10 pieces	480 pieces	0.90 kg
OMBIS 70 A604W 220-240/50 045A113T	22148601	10 pieces	480 pieces	1.20 kg
OMBIS 70 A604K 220-240/50 045A113T	22148623	10 pieces	480 pieces	1.15 kg
OMBIS 70 B604W 220-240/50 055A123T	22148602	10 pieces	480 pieces	1.40 kg
OMBIS 100 A604W 220-240/50 055A123T	22148604	10 pieces	480 pieces	1.40 kg
OMBIS 150 A604W 220-240/50 075A143T	22148606	10 pieces	480 pieces	1.90 kg
OMBIS 150 A604K 220-240/50 075A143T	22148629	10 pieces	480 pieces	1.80 kg
OMBIS 150 B604W 220-240/50 085A153T	22148607	10 pieces	480 pieces	2.00 kg
OMBIS 250 Z604W 220-240/50 120A188T	22149045	6 pieces	240 pieces	2.80 kg
<b>Ballasts with power tapping</b>				
OMBS 50/35 A603W 230/240/50 045A113PL	22118832	660 pieces	660 pieces	1.17 kg
OMBS 70/50 Z603W 230/240/50 045A113T	22158510	10 pieces	480 pieces	1.17 kg
OMBS 70/50 A603W 230/240/50 055A123T	22148603	10 pieces	480 pieces	1.40 kg
OMBS 70/50 Z603W 230/240/50 045A113HL	22148581	360 pieces	360 pieces	1.17 kg
OMBS 100/70 A603W 230/240/50 065A133T	22148605	10 pieces	480 pieces	1.60 kg
OMBS 150/100 A603W 230/240/50 105A173T	22148608	10 pieces	240 pieces	2.40 kg

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEI	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
										Hole spacing D	Hole spacing D1			
<b>Ballasts in standard design</b>														
35 W HS / HI		0.53 A	<b>OMBIS 35 A604W</b>	22148862	220 / 230 / 240 V	50 Hz	A3	yes	98 mm	75 – 84 mm	50.5 mm	30 mm	60 K	7.7 W
35 W HS / HI		0.53 A	<b>OMBIS 35 B604W</b>	22148600	220 / 230 / 240 V	50 Hz	A3	yes	103 mm	80 – 89 mm	55.5 mm	35 mm	50 K	7.3 W
50 W HS		0.76 A	<b>OMBS 50 A604W</b>	22148616	220 / 230 / 240 V	50 Hz	A3	yes	103 mm	80 – 89 mm	55.5 mm	35 mm	70 K	11.7 W
70 W HS / HI		1.00 A	<b>OMBIS 70 A604W</b>	22148601	220 / 230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	12.1 W
70 W HS / HI		1.00 A	<b>OMBIS 70 A604K</b>	22148623	220 / 230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	11.9 W
70 W HS / HI		1.00 A	<b>OMBIS 70 B604W</b>	22148602	220 / 230 / 240 V	50 Hz	A3	yes	123 mm	100 – 109 mm	75.5 mm	55 mm	65 K	12.4 W
100 W HS / HI		1.20 A	<b>OMBIS 100 A604W</b>	22148604	220 / 230 / 240 V	50 Hz	A2	yes	123 mm	100 – 109 mm	75.5 mm	55 mm	65 K	13.7 W
150 W HS / HI		1.80 A	<b>OMBIS 150 A604W</b>	22148606	220 / 230 / 240 V	50 Hz	A3	yes	143 mm	120 – 129 mm	95.5 mm	75 mm	75 K	18.5 W
150 W HS / HI		1.80 A	<b>OMBIS 150 A604K</b>	22148629	220 / 230 / 240 V	50 Hz	A3	no	143 mm	122 – 133 mm	95.5 mm	75 mm	75 K	18.5 W
150 W HS / HI		1.80 A	<b>OMBIS 150 B604W</b>	22148607	220 / 230 / 240 V	50 Hz	A3	yes	153 mm	130 – 139 mm	105.5 mm	85 mm	65 K	18.7 W
250 W HS / HI		3.00 A	<b>OMBIS 250 Z604W</b>	22149045	220 / 230 / 240 V	50 Hz	A3	yes	188 mm	165 – 174 mm	140.5 mm	120 mm	75 K	25.6 W
<b>Ballasts with power tapping</b>														
50 / 35 W	HS	0.76 / 0.50 A	<b>OMBS 50/35 A603W</b>	22118832	230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	42 mm	35 / 65 K	6.9 / 11.2 W
70 / 50 W	HS	1.00 / 0.76 A	<b>OMBS 70/50 Z603W</b>	22158510	230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 / 50 K	14.0 / 9.5 W
70 / 50 W	HS	1.00 / 0.76 A	<b>OMBS 70/50 A603W</b>	22148603	230 / 240 V	50 Hz	A3	yes	123 mm	100 – 109 mm	75.5 mm	55 mm	65 / 40 K	13.3 / 8.9 W
70 / 50 W	HS	1.00 / 0.76 A	<b>OMBS 70/50 Z603W</b>	22148581	230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	42 mm	70 / 50 K	14.0 / 9.5 W
100 / 70 W	HS	1.20 / 1.00 A	<b>OMBS 100/70 A603W</b>	22148605	230 / 240 V	50 Hz	A3	yes	133 mm	110 – 119 mm	85.5 mm	65 mm	65 / 55 K	13.7 / 10.7 W
150 / 100 W	HS	1.80 / 1.20 A	<b>OMBS 150/100 A603W</b>	22148608	230 / 240 V	50 Hz	A3	yes	173 mm	150 – 159 mm	125.5 mm	105 mm	70 / 45 K	21.6 / 12.2 W



### OMBIS 35 – 150 W OM PRO, screw terminal

High-pressure sodium and metal halide lamps

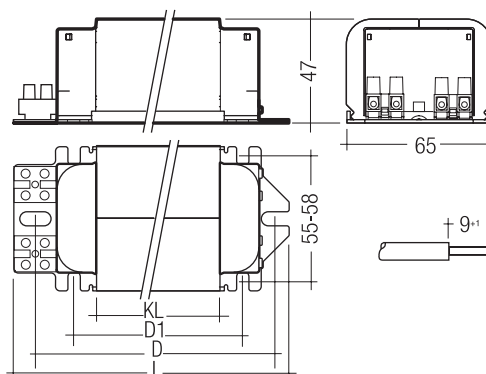
#### Product description

- Magnetic ballast
- For sodium lamps and metal halide lamps
- Chokes with reversible thermal cutout: trigger temperature 155 °C
- 22175029 and 22175139 without ENEC
- Additional types on request

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

#### Technical data

Max. winding temperature tw	130 °C
Screw terminal	0.75 – 2.5 mm <sup>2</sup>



Lamp matrix, page 180

Compensation matrix, page 195

Suitable ignitors, page 235

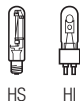
Wiring diagrams and installation examples, page 257

#### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OMBIS 35 A504K 220-240/50 030A098T	22148876	10 pieces	480 pieces	0.85 kg
OMBS 50 A504W 220-240/50 035A103T	22175084	10 pieces	480 pieces	1.00 kg
OMBIS 70 A504K 220-240/50 045A113T	22148718	10 pieces	480 pieces	1.37 kg
OMBIS 70 A504W 220-240/50 045A113T	22148680	10 pieces	480 pieces	1.15 kg
OMBIS 100 A504W 220-240/50 055A123T	22148805	10 pieces	480 pieces	1.37 kg
OMBIS 150 A504K 220-240/50 075A143T	22148719	10 pieces	480 pieces	1.80 kg
OMBIS 150 A504W 220-240/50 075A143T	22148782	10 pieces	480 pieces	1.80 kg
OMBIS 150 Z501K 230/50 065A133T	22175139	10 pieces	480 pieces	1.60 kg
OMBIS 250 Z502K 240/50 120A188T	22175116	6 pieces	240 pieces	2.75 kg
OMBIS 250 Z504K 220-240/50 120A188T	22175072	6 pieces	240 pieces	2.75 kg
OMBIS 250 Z505K 220/50 120A188T	22175029	6 pieces	240 pieces	2.75 kg
<b>Ballasts with power tapping</b>				
OMBS 70/50 A503W 230/240/50 055A123T	22175085	10 pieces	480 pieces	1.40 kg
OMBS 100/70 A503W 230/240/50 065A133T	22175086	10 pieces	480 pieces	1.60 kg
OMBS 150/100 A503W 230/240/50 105A173T	22175087	10 pieces	240 pieces	2.40 kg

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
										Hole spacing D	Hole spacing D1			
<b>Ballasts in standard design</b>														
35 W	HS / HI	0.53 A	<b>OMBIS 35 A504K</b>	22148876	220 / 230 / 240 V	50 Hz	A3	no	98 mm	77 – 88 mm	50.5 mm	30 mm	60 K	7.7 W
50 W	HS	0.76 A	<b>OMBS 50 A504W</b>	22175084	220 / 230 / 240 V	50 Hz	A3	yes	103 mm	80 – 89 mm	55.5 mm	35 mm	70 K	11.7 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 A504K</b>	22148718	220 / 230 / 240 V	50 Hz	A3	no	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	11.9 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 A504W</b>	22148680	220 / 230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	11.9 W
100 W	HS / HI	1.20 A	<b>OMBIS 100 A504W</b>	22148805	220 / 230 / 240 V	50 Hz	A2	yes	123 mm	100 – 109 mm	75.5 mm	55 mm	65 K	13.0 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 A504K</b>	22148719	220 / 230 / 240 V	50 Hz	A3	no	143 mm	122 – 133 mm	95.5 mm	75 mm	75 K	18.5 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 A504W</b>	22148782	220 / 230 / 240 V	50 Hz	A3	yes	143 mm	122 – 133 mm	95.5 mm	75 mm	75 K	18.5 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 Z501K</b>	22175139	230 V	50 Hz	A3	no	133 mm	110 – 119 mm	85.5 mm	65 mm	80 K	17.4 W
250 W	HS / HI	3.00 A	<b>OMBIS 250 Z502K</b>	22175116	240 V	50 Hz	–	no	188 mm	165 – 174 mm	140.5 mm	120 mm	75 K	26.3 W
250 W	HS / HI	3.00 A	<b>OMBIS 250 Z504K</b>	22175072	220 / 230 / 240 V	50 Hz	A3	no	188 mm	165 – 174 mm	140.5 mm	120 mm	75 K	25.6 W
250 W	HS / HI	3.00 A	<b>OMBIS 250 Z505K</b>	22175029	220 V	50 Hz	–	no	188 mm	165 – 174 mm	140.5 mm	120 mm	75 K	24.6 W
<b>Ballasts with power tapping</b>														
70 / 50 W	HS	1.00 / 0.76 A	<b>OMBS 70/50 A503W</b>	22175085	230 / 240 V	50 Hz	A3	yes	123 mm	100 – 109 mm	75.5 mm	55 mm	65 / 45 K	13.3 / 8.9 W
100 / 70 W	HS	1.20 / 1.00 A	<b>OMBS 10070 A503W</b>	22175086	230 / 240 V	50 Hz	A3	yes	133 mm	110 – 119 mm	85.5 mm	65 mm	65 / 55 K	14.9 / 12.1 W
150 / 100 W	HS	1.80 / 1.20 A	<b>OMBS 150/100 A503W</b>	22175087	230 / 240 V	50 Hz	A3	yes	173 mm	150 – 159 mm	125.5 mm	105 mm	70 / 45 K	21.6 / 12.2 W



### OMBIS 35 – 250 W OM PRO pulser tapping, screw terminal

High-pressure sodium and metal halide lamps

#### Product description

- Magnetic ballast
  - For sodium lamps and metal halide lamps
  - Choke with pulser tapping
  - Suitable for Tridonic ignitors
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

#### Technical data

Max. winding temperature $t_w$	130 °C
Screw terminal	0.75 – 2.5 mm <sup>2</sup>

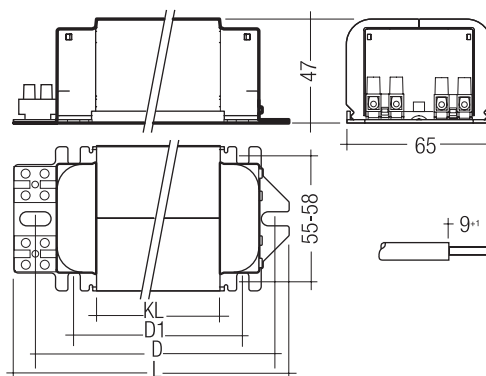


Lamp matrix, page 180

Compensation matrix, page 195

Suitable ignitors, page 235

Wiring diagrams and installation examples, page 257



#### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts with pulser tapping</b>				
OMBIS 35 PB503W 230/240/50 035A103T	22148609	10 pieces	480 pieces	0.90 kg
OMBS 50 PA503W 230/240/50 035A103T	22158567	10 pieces	480 pieces	0.90 kg
OMBS 70 PA503W 230/240/50 045A113T	22148611	10 pieces	480 pieces	1.20 kg
OMBI 70 PA503W 230/240/50 045A113T	22148610	10 pieces	480 pieces	1.20 kg
OMBI 70PA503W 230/240/50 045A113HL	22158576	360 pieces	360 pieces	1.20 kg
OMBIS 100 PA503W 230/240/50 055A123T	22148612	10 pieces	480 pieces	1.40 kg
OMBIS 100 PA503W 230/240/50 055A123HL	22158566	315 pieces	315 pieces	1.36 kg
OMBIS 150 PB503W 230/240/50 085A153T	22148613	10 pieces	480 pieces	2.00 kg
OMBIS 150 PA503W 230/240/50 075A143HL	22149207	270 pieces	270 pieces	1.80 kg
OMBIS 150 PB503W 230/240/50 085A153HL	22158565	245 pieces	245 pieces	2.00 kg
OMBIS 250 PZ 503W 230/240/50 120A188HL	22149230	195 pieces	195 pieces	2.80 kg

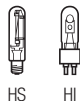
#### Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEI	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
										Hole spacing D	Hole spacing D1			
<b>Ballasts with pulser tapping</b>														
35 W	HS / HI	0.53 A	OMBIS 35 PB503W	22148609	230 / 240 V	50 Hz	A3	yes	103 mm	80 – 89 mm	55.5 mm	35 mm	50 K	7.5 W
50 W	HS	0.76 A	OMBS 50 PA503W	22158567	230 / 240 V	50 Hz	A3	yes	103 mm	80 – 89 mm	55.5 mm	35 mm	70 K	11.0 W
70 W	HS	1.00 A	OMBS 70 PA503W	22148611	230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	13.1 W
70 W	HI	1.00 A	OMBI 70 PA503W	22148610	230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	13.1 W
70 W	HI	1.00 A	OMBI 70PA503W	22158576	230 / 240 V	50 Hz	A3	yes	113 mm	90 – 99 mm	65.5 mm	45 mm	70 K	13.1 W
100 W	HS / HI	1.20 A	OMBIS 100 PA503W	22148612	230 / 240 V	50 Hz	A2	yes	123 mm	100 – 109 mm	75.5 mm	55 mm	65 K	13.7 W
100 W	HS / HI	1.20 A	OMBIS 100 PA503W	22158566	230 / 240 V	50 Hz	A2	yes	123 mm	100 – 109 mm	75.5 mm	55 mm	65 K	13.0 W
150 W	HS / HI	1.80 A	OMBIS 150 PB503W	22148613	230 / 240 V	50 Hz	A3	yes	153 mm	130 – 139 mm	105.5 mm	85 mm	65 K	18.1 W
150 W	HS / HI	1.80 A	OMBIS 150 PA503W	22149207	230 / 240 V	50 Hz	A3	yes	143 mm	122 – 133 mm	95.5 mm	75 mm	75 K	18.5 W
150 W	HS / HI	1.80 A	OMBIS 150 PB503W	22158565	230 / 240 V	50 Hz	A3	yes	153 mm	130 – 139 mm	105.5 mm	85 mm	65 K	18.1 W
250 W	HS / HI	3.00 A	OMBIS 250 PZ 503W	22149230	230 / 240 V	50 Hz	A3	yes	188 mm	165 – 174 mm	140.5 mm	120 mm	80 K	28.6 W





Only for devices with double insulation:



**OMBIS 35 – 250 W Vario 6-point**  
High-pressure sodium and metal halide lamps

**Product description**

- Magnetic ballast
  - For sodium lamps and metal halide lamps
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
  - Device with double insulation: irreversible thermal cutout, trigger temperature 214 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Max. winding temperature tw	130 °C
Push-in terminal	0.75 – 2.5 mm <sup>2</sup>

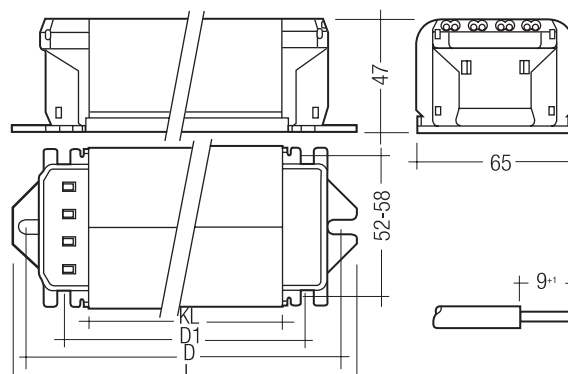


Lamp matrix, page 180

Compensation matrix, page 195

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Wiring diagrams and installation examples, page 257



**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OMBIS 35 B103W 230-250/50 035A097T	20569782	10 pieces	480 pieces	0.9 kg
OMBIS 35 B101W 230/50 035A097T	20578455	10 pieces	480 pieces	0.9 kg
OMBIS 70 A103W 230-250/50 045A107T	20568074	10 pieces	480 pieces	1.2 kg
OMBIS 70 B103W 230-250/50 055A117T	20575741	10 pieces	480 pieces	1.4 kg
OMBIS 70 C103W 230-250/50 065A127T	20820295	10 pieces	480 pieces	1.6 kg
OMBIS 70 A101W 230/50 045A107T	20568096	10 pieces	480 pieces	1.1 kg
OMBIS 70 B153W 230-250/50 055A091T	22148804	10 pieces	480 pieces	1.4 kg
OMBIS 100 A103W 230-250/50 055A117T	20568891	10 pieces	480 pieces	1.4 kg
OMBIS 100 C103W 230-250/50 075A137T	20570572	10 pieces	480 pieces	1.8 kg
OMBIS 150 A103W 230-250/50 075A137T	20568879	10 pieces	480 pieces	1.9 kg
OMBIS 150 B103W 230-250/50 085A147T	20568863	10 pieces	480 pieces	2.0 kg
OMBIS 150 B151W 230/50 085A121T	20824456	10 pieces	480 pieces	2.0 kg
OMBIS 250 1/2 B103W 230-250/50 085A147T	20575656	10 pieces	480 pieces	2.0 kg
<b>Ballasts with double insulation</b>				
OMBIS 35 A203D 230-250/50 030A092T	22148980	10 pieces	480 pieces	0.8 kg
OMBIS 70 A203D 230-250/50 045A107T	22148982	10 pieces	480 pieces	1.2 kg
OMBIS 100 A203D 230-250/50 055A117T	22148971	10 pieces	480 pieces	1.4 kg
OMBIS 150 A204D 220-240/50 075A137T	22148972	10 pieces	480 pieces	1.8 kg
<b>Ballasts with power tapping</b>				
OMBS 70/50 A103W 230/240/50 055A117T	20885000	10 pieces	480 pieces	1.4 kg
OMBS 100/70 A103W 230/240/50 065A127T	20885053	10 pieces	480 pieces	1.6 kg
OMBS 150/100 A103W 230/240/50 105A167T	20885094	10 pieces	240 pieces	2.4 kg

## Ordering data

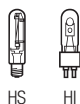
Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts with double insulation and power tapping</b>				
<b>OMBS 50/35 A201D</b> 230/50 045A107T	<b>22148992</b>	10 pieces	480 pieces	1.2 kg
<b>OMBS 70/50 A201D</b> 230/50 055A117T	<b>22148994</b>	10 pieces	480 pieces	1.4 kg
<b>OMBS 150/100 A201D</b> 230/50 105A167T	<b>22148989</b>	10 pieces	240 pieces	2.4 kg
<b>Ballasts for 60 Hz</b>				
<b>OMBIS 70 A106W</b> 220-240/60 045A107T	<b>20574788</b>	10 pieces	480 pieces	1.2 kg
<b>OMBIS 100 A106W</b> 220-240/60 055A117T	<b>20574794</b>	10 pieces	480 pieces	1.4 kg
<b>OMBIS 150 A106W</b> 220-240/60 060A114	<b>20571288</b>	10 pieces	480 pieces	1.9 kg

## Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEI	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
										Hole spacing D	Hole spacing D1			
<b>Ballasts in standard design</b>														
35 W	HS / HI	0.53 A	<b>OMBIS 35 B103W</b>	20569782	230 / 240 / 250 V	50 Hz	A3	yes	97 mm	80 – 89 mm	55.5 mm	35 mm	50 K	7.5 W
35 W	HS / HI	0.53 A	<b>OMBIS 35 B101W</b>	20578455	230 V	50 Hz	A3	yes	97 mm	80 – 89 mm	55.5 mm	35 mm	45 K	7.0 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 A103W</b>	20568074	230 / 240 / 250 V	50 Hz	A3	yes	107 mm	90 – 99 mm	65.5 mm	45 mm	70 K	12.1 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 B103W</b>	20575741	230 / 240 / 250 V	50 Hz	A3	yes	117 mm	100 – 109 mm	75.5 mm	55 mm	65 K	12.4 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 C103W</b>	20820295	230 / 240 / 250 V	50 Hz	A3	yes	127 mm	110 – 119 mm	85.5 mm	65 mm	55 K	12.2 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 A101W</b>	20568096	230 V	50 Hz	A3	yes	107 mm	90 – 99 mm	65.5 mm	45 mm	70 K	11.8 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 B153W</b>	22148804	230 / 240 / 250 V	50 Hz	A3	yes	91 mm	–	75.5 mm	55 mm	65 K	12.4 W
100 W	HS / HI	1.20 A	<b>OMBIS 100 A103W</b>	20568891	230 / 240 / 250 V	50 Hz	A2	yes	117 mm	100 – 109 mm	75.5 mm	55 mm	65 K	13.7 W
100 W	HS / HI	1.20 A	<b>OMBIS 100 C103W</b>	20570572	230 / 240 / 250 V	50 Hz	A2	yes	137 mm	120 – 129 mm	95.5 mm	75 mm	60 K	13.9 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 A103W</b>	20568879	230 / 240 / 250 V	50 Hz	A3	yes	137 mm	120 – 129 mm	95.5 mm	75 mm	85 K	19.5 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 B103W</b>	20568863	230 / 240 / 250 V	50 Hz	A3	yes	147 mm	130 – 139 mm	105.5 mm	85 mm	65 K	18.7 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 B151W</b>	20824456	230 V	50 Hz	A3	yes	121 mm	–	105.5 mm	85 mm	65 K	17.5 W
250 W	HS / HI	3.00 A	<b>OMBIS 250 1/2 B103W</b>	20575656	230 / 240 / 250 V	50 Hz	A3	yes	147 mm	130 – 139 mm	105.5 mm	85 mm	70 K	18.3 W
<b>Ballasts with double insulation</b>														
35 W	HS / HI	0.53 A	<b>OMBIS 35 A203D</b>	22148980	230 / 240 / 250 V	50 Hz	A3	yes	92 mm	75 – 84 mm	50.5 mm	30 mm	60 K	8.0 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 A203D</b>	22148982	230 / 240 / 250 V	50 Hz	A3	yes	107 mm	90 – 99 mm	65.5 mm	45 mm	70 K	12.7 W
100 W	HS / HI	1.20 A	<b>OMBIS 100 A203D</b>	22148971	230 / 240 / 250 V	50 Hz	A2	yes	117 mm	100 – 109 mm	75.5 mm	55 mm	65 K	13.7 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 A204D</b>	22148972	220 / 230 / 240 V	50 Hz	A3	yes	137 mm	120 – 129 mm	95.5 mm	75 mm	75 K	18.5 W
<b>Ballasts with power tapping</b>														
70 / 50 W	HS	1.00 / 0.76 A	<b>OMBS 70/50 A103W</b>	20885000	230 / 240 V	50 Hz	A3	yes	117 mm	100 – 109 mm	75.5 mm	55 mm	65 / 40 K	13.8 / 9.4 W
100 / 70 W	HS	1.20 / 1.00 A	<b>OMBS 100/70 A103W</b>	20885053	230 / 240 V	50 Hz	A3	yes	127 mm	110 – 119 mm	85.5 mm	65 mm	65 / 55 K	13.7 / 10.7 W
150 / 100 W	HS	1.80 / 1.20 A	<b>OMBS 150/100 A103W</b>	20885094	230 / 240 V	50 Hz	A3	yes	167 mm	150 – 159 mm	125.5 mm	105 mm	70 / 45 K	21.6 / 12.2 W
<b>Ballasts with double insulation and power tapping</b>														
50 / 35 W	HS	0.76 / 0.53 A	<b>OMBS 50/35 A201D</b>	22148992	230 V	50 Hz	A3	yes	107 mm	90 – 99 mm	65.5 mm	45 mm	65 / 35 K	10.8 / 6.7 W
70 / 50 W	HS	1.00 / 0.76 A	<b>OMBS 70/50 A201D</b>	22148994	230 V	50 Hz	A3	yes	117 mm	100 – 109 mm	75.5 mm	55 mm	65 / 40 K	12.6 / 8.7 W
150 / 100 W	HS	1.80 / 1.20 A	<b>OMBS 150/100 A201D</b>	22148989	230 V	50 Hz	A3	yes	167 mm	150 – 159 mm	125.5 mm	105 mm	75 / 45 K	21.0 / 11.8 W
<b>Ballasts for 60 Hz</b>														
70 W	HS / HI	1.00 A	<b>OMBIS 70 A106W</b>	20574788	220 / 230 / 240 V	60 Hz	–	yes	107 mm	90 – 99 mm	65.5 mm	45 mm	60 K	11.8 W
100 W	HS / HI	1.20 A	<b>OMBIS 100 A106W</b>	20574794	220 / 230 / 240 V	60 Hz	–	yes	117 mm	100 – 109 mm	75.5 mm	55 mm	60 K	12.6 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 A106W</b>	20571288	220 / 230 / 240 V	60 Hz	–	yes	137 mm	120 – 129 mm	95.5 mm	75 mm	70 K	17.4 W



Only for devices with double insulation:



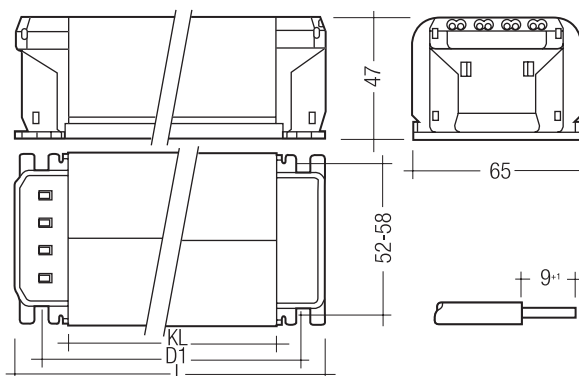
**OMBIS 35 – 250 W Vario 4-point**  
High-pressure sodium and metal halide lamps

**Product description**

- Magnetic ballast
  - For sodium lamps and metal halide lamps
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
  - Device with double insulation:  
irreversible thermal cutout, trigger temperature 214 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

**Technical data**

Max. winding temperature tw	130 °C
Push-in terminal	0.75 – 2.5 mm <sup>2</sup>



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Compensation matrix, page 195

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Wiring diagrams and installation examples, page 257

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OMBIS 35 B153W 230-250/50 035A071T	20824173	10 pieces	480 pieces	0.9 kg
OMBIS 70 A153W 230-250/50 045A081T	20824220	10 pieces	480 pieces	1.2 kg
OMBIS 70 C153W 230-250/50 065A101T	20824343	10 pieces	480 pieces	1.6 kg
OMBIS 150 A153W 230-250/50 075A111T	20880440	10 pieces	480 pieces	1.9 kg
OMBIS 150 B153W 230-250/50 085A121T	20824469	10 pieces	480 pieces	2.0 kg
OMBIS 150 C153W 230-250/50 105A141T	20824504	10 pieces	240 pieces	2.4 kg
OMBIS 250 A153W 230-250/50 150A186T	20824891	6 pieces	240 pieces	3.5 kg
<b>Ballasts with double insulation</b>				
OMBIS 70 A253D 230-250/50 045A081T	22148985	10 pieces	480 pieces	1.2 kg
OMBIS 150 B253D 230-250/50 085A121T	22148973	10 pieces	480 pieces	2.0 kg
<b>Ballasts with power tapping</b>				
OMBS 100/70 A153W 230/240/50 065A101T	20885066	10 pieces	480 pieces	1.6 kg
OMBS 150/100 A153W 230/240/50 105A141T	20885109	10 pieces	240 pieces	2.5 kg
<b>Ballasts with double insulation and power tapping</b>				
OMBS 50/35 A251D 230/50 045A081T	22148993	10 pieces	480 pieces	1.2 kg
OMBS 70/50 A251D 230/50 055A091T	22148996	10 pieces	480 pieces	1.4 kg
OMBS 100/70 A251D 230/50 065A101T	22148988	10 pieces	480 pieces	1.7 kg
OMBS 150/100 A251D 230/50 105A141T	22148990	10 pieces	240 pieces	2.5 kg

Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions Hole spacing D1	Core length KL	ΔT	Losses
<b>Ballasts in standard design</b>													
35 W	HS / HI	0.53 A	<b>OMBIS 35 B153W</b>	20824173	230 / 240 / 250 V	50 Hz	A3	yes	71 mm	55.5 mm	35 mm	50 K	7.5 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 A153W</b>	20824220	230 / 240 / 250 V	50 Hz	A3	yes	81 mm	65.5 mm	45 mm	70 K	12.1 W
70 W	HS / HI	1.00 A	<b>OMBIS 70 C153W</b>	20824343	230 / 240 / 250 V	50 Hz	A3	yes	101 mm	85.5 mm	65 mm	55 K	12.2 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 A153W</b>	20880440	230 / 240 / 250 V	50 Hz	A3	yes	111 mm	95.5 mm	75 mm	85 K	19.5 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 B153W</b>	20824469	230 / 240 / 250 V	50 Hz	A3	yes	121 mm	105.5 mm	85 mm	65 K	18.7 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 C153W</b>	20824504	230 / 240 / 250 V	50 Hz	A3	yes	141 mm	125.5 mm	105 mm	65 K	18.3 W
250 W	HS / HI	3.00 A	<b>OMBIS 250 A153W</b>	20824891	230 / 240 / 250 V	50 Hz	A3	yes	186 mm	170.5 mm	150 mm	75 K	34.2 W
<b>Ballasts with double insulation</b>													
70 W	HS / HI	1.00 A	<b>OMBIS 70 A253D</b>	22148985	230 / 240 / 250 V	50 Hz	A3	yes	81 mm	65.5 mm	45 mm	70 K	12.1 W
150 W	HS / HI	1.80 A	<b>OMBIS 150 B253D</b>	22148973	230 / 240 / 250 V	50 Hz	A3	yes	121 mm	105.5 mm	85 mm	70 K	18.3 W
<b>Ballasts with power tapping</b>													
100 / 70 W	HS	1.20 / 1.00 A	<b>OMBS 100/70 A153W</b>	20885066	230 / 240 V	50 Hz	A3	yes	101 mm	85.5 mm	65 mm	65 / 55 K	13.7 / 10.7 W
150 / 100 W	HS	1.80 / 1.20 A	<b>OMBS 150/100 A153W</b>	20885109	230 V	50 Hz	A3	yes	167 mm	125.5 mm	105 mm	75 / 45 K	21.0 / 11.8 W
<b>Ballasts with double insulation and power tapping</b>													
50 / 35 W	HS	0.76 / 0.53 A	<b>OMBS 50/35 A251D</b>	22148993	230 V	50 Hz	A3	yes	81 mm	65.5 mm	45 mm	65 / 35 K	10.8 / 6.7 W
70 / 50 W	HS	1.00 / 0.76 A	<b>OMBS 70/50 A251D</b>	22148996	230 V	50 Hz	A3	yes	91 mm	75.5 mm	55 mm	65 / 40 K	13.5 / 9.2 W
100 / 70 W	HS	1.20 / 1.00 A	<b>OMBS 100/70 A251D</b>	22148988	230 V	50 Hz	A3	yes	101 mm	85.5 mm	65 mm	65 / 55 K	13.0 / 10.5 W
150 / 100 W	HS	1.80 / 1.20 A	<b>OMBS 150/100 A251D</b>	22148990	230 V	50 Hz	A3	yes	141 mm	130.5 mm	105 mm	70 / 45 K	21.0 / 11.8 W



**OMB SDW 35 – 100 W for ignitors CSLS (Philips)**  
SON SDW-T special lamp

**Product description**

- Magnetic ballast
  - For Philips SON-SDW lamps
  - Operation on Philips CSLS control unit
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Max. winding temperature tw	130 °C
Push-in terminal	0.75 – 2.5 mm <sup>2</sup>

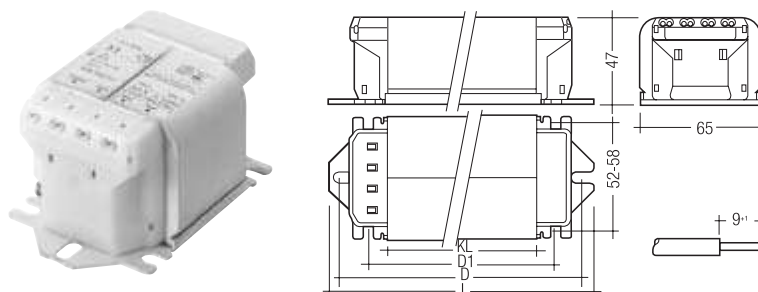


Fig. 1

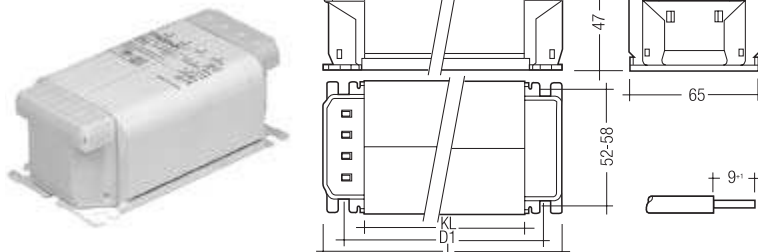


Fig. 2



Lamp matrix, page 180

Compensation matrix, page 195

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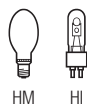
Wiring diagrams and installation examples, page 257

**Ordering data**

Type	Article number	Figure	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>OMB SDW 35 B153W</b> 220-240/50 035A071T	<b>20823181</b>	2	10 pieces	480 pieces	0.9 kg
<b>OMB SDW 50 B153W</b> 220-240/50 040A076T	<b>20881229</b>	1	10 pieces	480 pieces	1.0 kg
<b>OMB SDW 100 B153W</b> 220-240/50 075A111T	<b>20823207</b>	2	10 pieces	480 pieces	1.7 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Figure	Voltage	Mains frequency	EEI	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
											Hole spacing D	Hole spacing D1			
35 W	HS	0.48 A	<b>OMB SDW 35 B153W</b>	20823181	2	220 / 230 / 240 V	50 Hz	A2	yes	71 mm	–	55 mm	35 mm	50 K	6.2 W
50 W	HS	0.78 A	<b>OMB SDW 50 B153W</b>	20881229	1	220 / 230 / 240 V	50 Hz	A3	yes	102 mm	85 – 94 mm	60 mm	50 mm	65 K	9.5 W
100 W	HS	1.35 A	<b>OMB SDW 100 B153W</b>	20823207	2	220 / 230 / 240 V	50 Hz	A3	yes	111 mm	–	95 mm	75 mm	55 K	12.7 W

**OGL 250 – 1000 W**

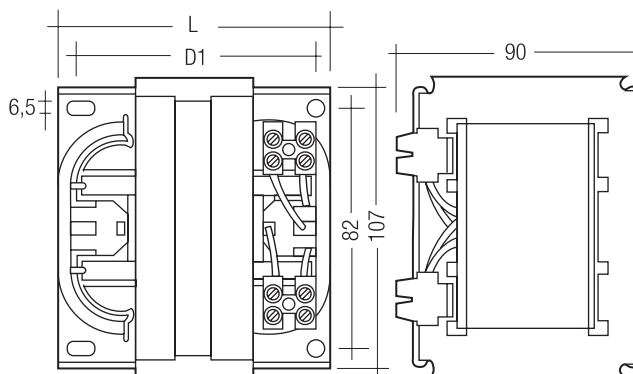
High-pressure mercury and metal halide lamps

**Product description**

- Magnetic ballast
  - For mercury vapour lamps and metal halide lamps
  - Chokes with reversible thermal cutout:  
trigger temperature 155 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

**Technical data**

Max. winding temperature tw	130 °C
Screw terminal	1 – 6 mm <sup>2</sup>



Lamp matrix, page 180

Compensation matrix, page 195

Suitable ignitors, page 235

Wiring diagrams and installation examples, page 257

**Ordering data**

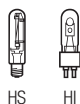
Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.	
<b>Ballasts in standard design</b>					
OGL 250 W 30	220-240/50 030A084	20296024	6 pieces	216 pieces	2.4 kg
OGL 400 W 40	220-240/50 040A094	20296030	6 pieces	216 pieces	3.1 kg
OGL 700 W 80	220-240/50 080A134	20294541	3 pieces	108 pieces	5.4 kg
OGL 1000 W 120	220-240/50 120B174	20295043	2 pieces	72 pieces	7.7 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions Hole spacing D1	Core length KL	ΔT	Losses
<b>Ballasts in standard design</b>													
250 W	HM / HI	2.15 A	OGL 250 W 30	20296024	220 / 230 / 240 V	50 Hz	A2	no	84 mm	70 mm	30 mm	65 K	18.6 W
400 W	HM / HI	3.25 A	OGL 400 W 40	20296030	220 / 230 / 240 V	50 Hz	A2	no	94 mm	80 mm	40 mm	75 K	25.1 W
700 W	HM	5.40 A	OGL 700 W 80	20294541	220 / 230 / 240 V	50 Hz	A2	no	134 mm	120 mm	80 mm	60 K	28.0 W
1,000 W	HM / HI	7.50 A	OGL 1000 W 120	20295043	220 / 230 / 240 V	50 Hz	A2	no	174 mm	160 mm	120 mm	70 K	37.0 W



Only for devices with double insulation:



## OGLIS 250 – 1000 W

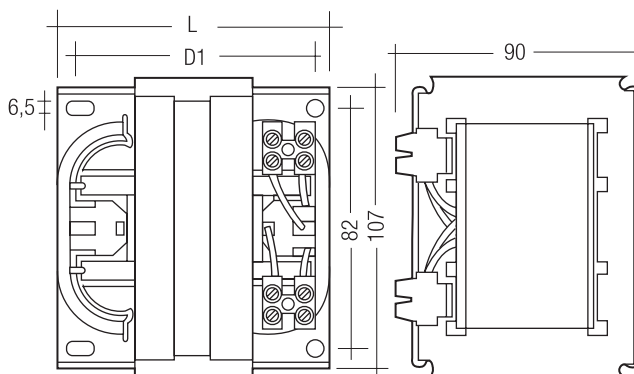
High-pressure sodium and metal halide lamps

### Product description

- Magnetic ballast
  - For sodium lamps and metal halide lamps
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
  - Device with double insulation:  
irreversible thermal cutout, trigger temperature 214 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

### Technical data

Max. winding temperature tw	130 °C
Screw terminal	1 – 4 mm <sup>2</sup>



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Suitable ignitors, page 235

Wiring diagrams and installation examples, page 257

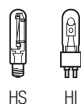
### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OGLIS 250W 40 230-250/50 040A094 TP	20562752	6 pieces	216 pieces	3.1 kg
OGLS 400 W 60 220-240/50 060A114 TP	20820138	4 pieces	144 pieces	4.5 kg
OGLS 600W 100 220-240/50 100B154 TP	20882197	3 pieces	108 pieces	6.7 kg
OGLIS 1000 A024W 220-240/50 140A194	22148490	2 pieces	72 pieces	9.0 kg
<b>Ballasts with double insulation</b>				
OGLIS 250 C203D 230-250/50 040A094	22149035	6 pieces	216 pieces	3.2 kg
OGLS 400 C203D 230-250/50 060A114	22149038	4 pieces	144 pieces	4.2 kg
<b>Ballasts with pulser tapping</b>				
OGLIS 250 PC023W 230/240/50 040A094	22149231	6 pieces	216 pieces	3.1 kg
OGLIS1000 PC023W 230/240/50 180B234HL	22148645	1 pieces	42 pieces	11.6 kg
<b>Ballasts for 60 Hz</b>				
OGLS 400W 60 220-240/60 060A114	20565518	4 pieces	144 pieces	4.2 kg
OGLS 600W 80 220-240/60 080A134	20821091	3 pieces	108 pieces	5.4 kg
OGLIS 1000W 140 220-240/60 140B194	20880891	2 pieces	72 pieces	9.0 kg

## Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions Hole spacing D1	Core length KL	ΔT	Losses
<b>Ballasts in standard design</b>													
250 W	HS / HI	3.00 A	<b>OGLIS 250W 40</b>	20562752	230 / 240 / 250 V	50 Hz	A2	yes	94 mm	80 mm	40 mm	70 K	25.5 W
400 W	HS / HI	4.45 A	<b>OGLS 400 W 60</b>	20820138	220 / 230 / 240 V	50 Hz	A2	yes	114 mm	100 mm	60 mm	70 K	30.0 W
600 W	HS	6.20 A	<b>OGLS 600W 100</b>	20882197	220 / 230 / 240 V	50 Hz	A2	yes	154 mm	140 mm	100 mm	65 K	35.0 W
1,000 W	HS / HI	10.30 A	<b>OGLIS 1000 A024W</b>	22148490	220 / 230 / 240 V	50 Hz	A2	yes	194 mm	180 mm	140 mm	75 K	72.0 W
<b>Ballasts with double insulation</b>													
250 W	HS / HI	3.00 A	<b>OGLIS 250 C203D</b>	22149035	230 / 240 / 250 V	50 Hz	A2	yes	94 mm	80 mm	40 mm	70 K	25.5 W
400 W	HS / HI	4.45 A	<b>OGLS 400 C203D</b>	22149038	230 / 240 / 250 V	50 Hz	A2	yes	114 mm	100 mm	60 mm	80 K	34.0 W
<b>Ballasts with pulser tapping</b>													
250 W	HS / HI	3.00 A	<b>OGLIS 250 PC023W</b>	22149231	230 / 240 V	50 Hz	A3	yes	94 mm	80 mm	40 mm	80 K	27.4 W
1,000 W	HS / HI	10.30 A	<b>OGLIS1000 PC023W</b>	22148645	230 / 240 V	50 Hz	A2	yes	234 mm	220 mm	180 mm	60 K	51.0 W
<b>Ballasts for 60 Hz</b>													
400 W	HS / HI	4.45 A	<b>OGLS 400W 60</b>	20565518	220 / 230 / 240 V	60 Hz	–	no	114 mm	100 mm	60 mm	60 K	30.4 W
600 W	HS	6.20 A	<b>OGLS 600W 80</b>	20821091	220 / 230 / 240 V	60 Hz	–	no	134 mm	120 mm	80 mm	60 K	34.3 W
1,000 W	HS / HI	10.30 A	<b>OGLIS 1000W 140</b>	20880891	220 / 230 / 240 V	60 Hz	–	no	194 mm	180 mm	140 mm	70 K	70.0 W





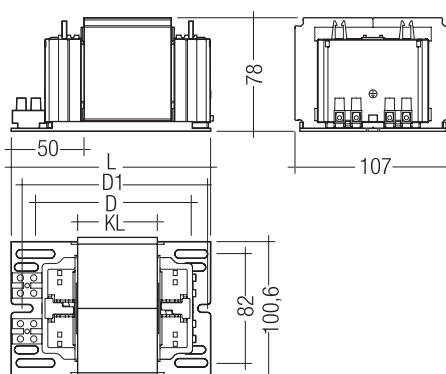
**OGLS 250 – 600 W Vario**  
High-pressure sodium and metal halide lamps

**Product description**

- Magnetic ballast
  - For sodium lamps and metal halide lamps
  - Chokes with reversible thermal cutout: trigger temperature 155 °C
  - Additional types on request
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Max. winding temperature tw	130 °C
Screw terminal	1 – 6 mm <sup>2</sup>



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Compensation matrix, page 195

Suitable ignitors, page 235

Wiring diagrams and installation examples, page 257

HID magnetic chokes

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
OGLIS 250 C044W 220-240/50 040V130PL	89121836	2 pieces	214 pieces	3.1 kg
OGLS 400 C044W 220-240/50 060V150	89121840	2 pieces	84 pieces	4.5 kg
OGL 400 C044K 220-240/50 040V130PL	89121845	2 pieces	168 pieces	3.1 kg
OGLS 600 A046W 380-415/50 080V170	89121976	1 pieces	84 pieces	5.4 kg
OGLS 600 C045W 220-240/50 100V185HL	89121968	56 pieces	56 pieces	6.7 kg
<b>Ballasts with power tapping</b>				
OGLS 250/150 C043W 230/240/50 060V150	89121864	2 pieces	168 pieces	4.5 kg
OGLS 400/250 W C043W 230/240/50 080V170	89121865	1 pieces	84 pieces	5.4 kg
<b>Ballasts with pulser tapping</b>				
OGLI 400 PC043W 230/240/50 050V140	89121866	1 pieces	84 pieces	3.5 kg
OGLS 400 PC043W 230/240/50 060V150HL	89121873	1 pieces	84 pieces	4.5 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions		Core length KL	ΔT	Losses
										Hole spacing D	Hole spacing D1			
<b>Ballasts in standard design</b>														
250 W	HS/HI	3.00 A	OGLIS 250 C044W	89121836	220/230/240 V	50 Hz	A2	yes	130 mm	110.5 – 124 mm	76.5 – 118 mm	40 mm	70 K	25.5 W
400 W	HS/HI	4.45 A	OGLS 400 C044W	89121840	220/230/240 V	50 Hz	A2	yes	150 mm	130.5 – 144 mm	96.5 – 138 mm	60 mm	70 K	30.0 W
400 W	HI	3.25 A	OGL 400 C044K	89121845	220/230/240 V	50 Hz	A2	no	130 mm	110.5 – 124 mm	76.5 – 118 mm	40 mm	75 K	25.1 W
600 W	HS	6.20 A	OGLS 600 A046W	89121976	380/400/415 V	50 Hz	–	yes	170 mm	150.5 – 164 mm	116.5 – 158 mm	80 mm	75 K	35.0 W
600 W	HS	6.20 A	OGLS 600 C045W	89121968	220/230/240 V	50 Hz	A2	yes	185 mm	165.5 – 179 mm	131.5 – 173 mm	100 mm	65/55 K	35.0 W
<b>Ballasts with power tapping</b>														
250/150 W	HS	3.00/1.8 A	OGLS 250/150 C043W	89121864	230/240 V	50 Hz	A2	yes	150 mm	130.5 – 144 mm	96.5 – 138 mm	60 mm	65/45 K	19.1 W
400/250 W	HS	4.45/3.0 A	OGLS 400/250 W C043W	89121865	230/240 V	50 Hz	A2	yes	170 mm	116.5 – 158 mm	150.5 – 164 mm	80 mm	65/45 K	31.9/19.1 W
<b>Ballasts with pulser tapping</b>														
400 W	HI	4.45 A	OGLI 400 PC043W	89121866	230/240 V	50 Hz	A2	yes	140 mm	120.5 – 134 mm	86.5 – 128 mm	50 mm	65 K	25.0 W
400 W	HS	4.45 A	OGLS 400 PC043W	89121873	230/240 V	50 Hz	A2	yes	150 mm	130.5 – 144 mm	96.5 – 138 mm	60 mm	70 K	30.0 W



**OGLI 2000 W**  
Metal halide lamps

**Product description**

- Magnetic ballast
- For metal halide lamps
- Potted version: higher protection against corrosion
- Additional types on request

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

**Technical data**

Max. winding temperature tw	130 °C
Screw terminal	1 – 6 mm <sup>2</sup>



Lamp matrix, page 180

Compensation matrix, page 195

Suitable ignitors, page 235

Wiring diagrams and installation examples, page 257

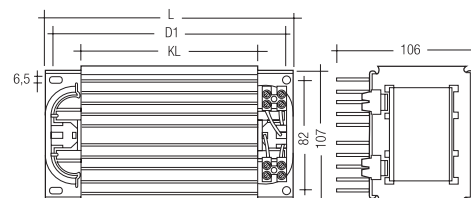


Fig. 1

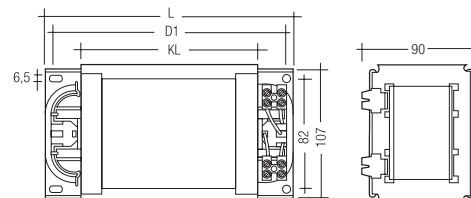


Fig. 2

**Ordering data**

Type	Article number	Figure	Packaging, carton	Packaging, pallet	Weight per pcs.	
<b>Ballasts in standard design</b>						
OGLI 2000 W 160	380-415/50 160B214	20295037	1	2 pieces	72 pieces	8.0 kg
OGLI 2000W 160	380-415/50 160B214VG	20560905	1	2 pieces	72 pieces	10.7 kg
OGLI 2000 W 180	380-415/50 180B234	20566616	1	2 pieces	72 pieces	11.6 kg
OGLI 2000W 180	380-415/50 180B234VG	20567317	1	2 pieces	72 pieces	11.7 kg
OGLI 2000 W 210	380-420/50 210B268HL	20882285	2	2 pieces	72 pieces	13.1 kg
OGLI 2000C027K	360-415/50 210B268VGH	22148887	2	28 pieces	28 pieces	13.6 kg
<b>Ballasts with pulser tapping</b>						
OGLI 2000 W PC026K	380/400/50 210B268HL	22175007	2	28 pieces	56 pieces	13.6 kg
OGLI 2000 W PC027K	360-400/50 210B268VGH	22175009	2	28 pieces	56 pieces	13.6 kg
<b>Ballasts for 60 Hz</b>						
OGLI 2000 W 180	380-415/60 180B234VG	20563406	1	2 pieces	72 pieces	11.6 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Figure	Voltage	Mains frequency	Potted	EEL	Thermal protection	Length L	Fixing dimensions Hole spacing D1	Core length KL	ΔT	Losses
<b>Ballasts in standard design</b>															
2,000 W	HI	8.8 A	OGLI 2000 W 160	20295037	1	380 / 400 / 415 V	50 Hz	no	–	no	214 mm	200 mm	160 mm	80 K	75.0 W
2,000 W	HI	8.8 A	OGLI 2000W 160	20560905	1	380 / 400 / 415 V	50 Hz	yes	–	no	214 mm	200 mm	160 mm	80 K	58.2 W
2,000 W	HI	10.3 A	OGLI 2000 W 180	20566616	1	380 / 400 / 415 V	50 Hz	no	–	no	234 mm	220 mm	180 mm	80 K	100.0 W
2,000 W	HI	10.3 A	OGLI 2000W 180	20567317	1	380 / 400 / 415 V	50 Hz	yes	–	no	234 mm	220 mm	180 mm	80 K	85.0 W
2,000 W	HI	10.3 A	OGLI 2000 W 210	20882285	2	380 / 400 / 415 V	50 Hz	no	–	no	268 mm	254 mm	210 mm	90 K	105.0 W
2,000 W	HI	10.3 A	OGLI 2000C027K	22148887	2	380 / 400 / 415 V	50 Hz	yes	–	no	268 mm	254 mm	210 mm	90 K	83.0 W
<b>Ballasts with pulser tapping</b>															
2,000 W	HI	10.3 A	OGLI 2000 W PC026K	22175007	2	380 / 400 V	50 Hz	no	–	no	268 mm	254 mm	210 mm	85 K	80.0 W
2,000 W	HI	10.3 A	OGLI 2000 W PC027K	22175009	2	360 / 380 / 400 V	50 Hz	yes	–	no	268 mm	254 mm	210 mm	90 K	80.0 W
<b>Ballasts for 60 Hz</b>															
2,000 W	HI	10.3 A	OGLI 2000 W 180	20563406	1	380 / 400 / 415 V	60 Hz	yes	–	no	234 mm	220 mm	180 mm	70 K	86.0 W



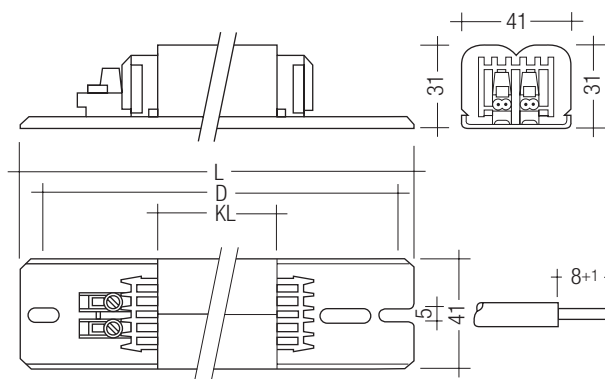
**ECM 50 – 80 W**  
High-pressure mercury lamps

**Product description**

- Magnetic ballast
- For mercury vapour lamps
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Max. winding temperature tw	130 °C
Push-in terminal	0.5 – 1.5 mm <sup>2</sup>



→ **Lamp matrix**, page 180

**Compensation matrix**, page 195

**Suitable ignitors**, page 235

**Wiring diagrams and installation examples**, page 257

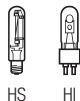
**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
<b>ECM 50 A90</b> 230/50 090A165	<b>20569741</b>	15 pieces	630 pieces	0.85 kg
<b>ECM 80 A140</b> 230/50 140A231	<b>22175043</b>	5 pieces strapped	600 pieces	1.30 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions Hole spacing D	Core length KL	ΔT	Losses
<b>Ballasts in standard design</b>													
50 W	HM	0.62 A	<b>ECM 50 A90</b>	20569741	230 V	50 Hz	A3	no	165 mm	144 – 158 mm	90 mm	60 K	11.4 W
80 W	HM	0.80 A	<b>ECM 80 A140</b>	22175043	230 V	50 Hz	A3	no	231 mm	210 – 224 mm	140 mm	50 K	13.1 W

HID magnetic chokes



### ECIS 35 – 70 W

High-pressure sodium and metal halide lamps

#### Product description

- Magnetic ballast
  - For sodium lamps and metal halide lamps
  - Chokes with reversible thermal cutout:  
trigger temperature 155 °C
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

#### Technical data

Max. winding temperature $t_w$	130 °C
Screw terminal	0.75 – 1.5 mm <sup>2</sup>

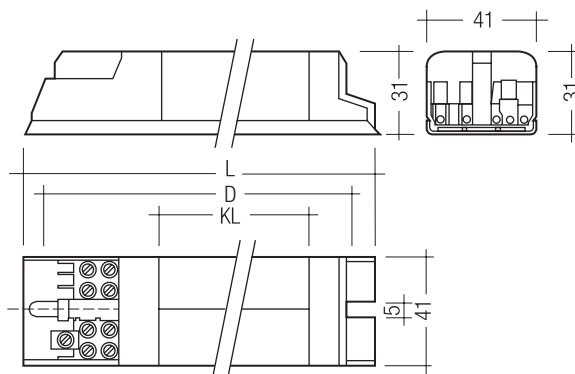


Lamp matrix, page 180

Compensation matrix, page 195

Suitable ignitors, page 235

Wiring diagrams and installation examples, page 257



#### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Ballasts in standard design</b>				
<b>ECIS 35 C90</b> 230-250/50 090B165 TP	<b>20566187</b>	15 pieces	630 pieces	0.85 kg
<b>ECIS 70 A140</b> 230-250/50 140B215 TP	<b>20566335</b>	15 pieces	630 pieces	1.30 kg

#### Specific technical data

Lamp wattage	Lamp type	Rated lamp current	Type <sup>®</sup>	Article number	Voltage	Mains frequency	EEL	Thermal protection	Length L	Fixing dimensions Hole spacing D	Core length KL	ΔT	Losses
<b>Ballasts in standard design</b>													
35 W	HS / HI	0.53 A	<b>ECIS 35 C90</b>	20566187	230 / 240 / 250 V	50 Hz	A3	yes	165 mm	144 – 158 mm	90 mm	55 K	12 W
70 W	HS / HI	1.00 A	<b>ECIS 70 A140</b>	20566335	230 / 240 / 250 V	50 Hz	A3	yes	215 mm	194 – 208 mm	140 mm	75 K	21 W



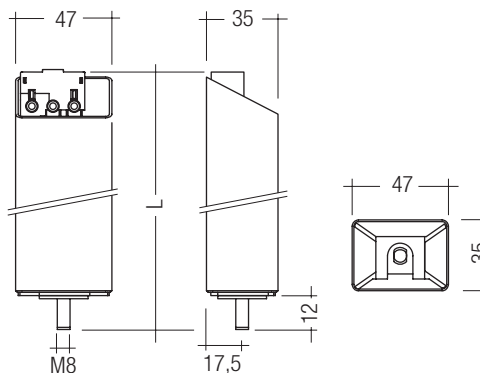
**ECF 8 – 32**  
EC design

**Product description**

- Choke
  - For systems with carrier frequency controllers
  - For protection class II applications
  - Irreversible thermal cutout, trigger temperature 115 °C
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Voltage	230 / 240 V, 50 Hz
Cutoff frequency	> 485 Hz
Push-in terminal	0.5 – 1.5 mm <sup>2</sup>



**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet
<b>Choke with double insulation</b>			
ECF 8/485 A201B 230/240/50 ZIMP 87	22175046	44 pieces	1,188 pieces
ECF 10/485 A201B 230/240/50 ZIMP 87	22175074	44 pieces	1,188 pieces
ECF 12/485 A201B 230/240/50 ZIMP 87	22175047	44 pieces	1,188 pieces
ECF 20/485 A201B 230/240/50 ZIMP 87	22149227	44 pieces	1,188 pieces
ECF 32/485 A201B 230/240/50 ZIMP 113	22175048	36 pieces	972 pieces

**Specific technical data**

Type	Article number	Compensation	Length L
<b>Choke with double insulation</b>			
ECF 8/485 A201B 230/240/50 ZIMP 87	22175046	8 µF	87 mm
ECF 10/485 A201B 230/240/50 ZIMP 87	22175074	10 µF	87 mm
ECF 12/485 A201B 230/240/50 ZIMP 87	22175047	12 µF	87 mm
ECF 20/485 A201B 230/240/50 ZIMP 87	22149227	20 µF	87 mm
ECF 32/485 A201B 230/240/50 ZIMP 113	22175048	32 µF	113 mm



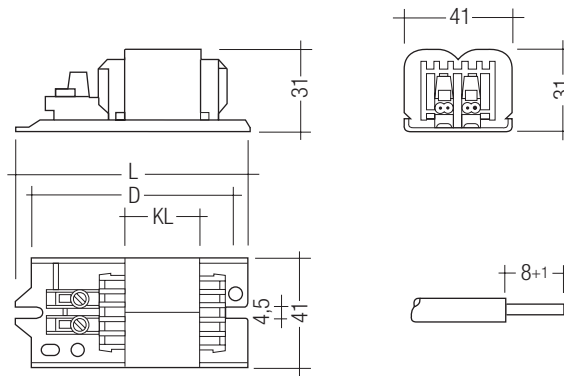
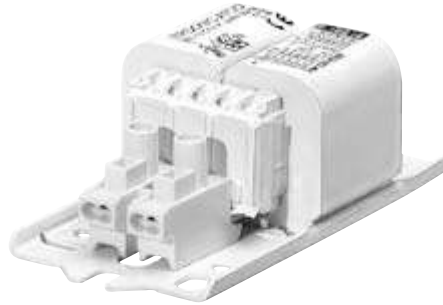
**ECF 8 – 60**  
EC design

**Product description**

- Choke
  - For systems with carrier frequency controllers
  - For protection class I applications
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

**Technical data**

Voltage	230 / 240 V, 50 Hz
Cutoff frequency	> 485 Hz
Push-in terminal	0.5 – 1.5 mm <sup>2</sup>



**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet
<b>Standard choke</b>			
ECF 8/485 A27 230/240/50 027A084	20560466	55 pieces	1,980 pieces
ECF 10/485 A27 230/240/50 027A084	20560494	55 pieces	1,980 pieces
ECF 12/485 A27 230/240/50 027A084	20566527	55 pieces	1,980 pieces
ECF 20/485 A27 230/240/50 027A084	20566549	55 pieces	1,980 pieces
ECF 25/485 A27 230/240/50 027A084	20825183	55 pieces	1,980 pieces
ECF 32/485 A27 230/240/50 027A084	20825199	55 pieces	1,980 pieces
ECF 45/485 A50 230/240/50 050A110	20820349	36 pieces	1,296 pieces
ECF 60/485 A50 230/240/50 050A151	20566568	36 pieces	1,296 pieces

**Specific technical data**

Type	Article number	Compensation	Length L	Hole spacing D
<b>Standard choke</b>				
ECF 8/485 A27 230/240/50 027A084	20560466	8 µF	84.5 mm	77 mm
ECF 10/485 A27 230/240/50 027A084	20560494	10 µF	84.5 mm	77 mm
ECF 12/485 A27 230/240/50 027A084	20566527	12 µF	84.5 mm	77 mm
ECF 20/485 A27 230/240/50 027A084	20566549	20 µF	84.5 mm	77 mm
ECF 25/485 A27 230/240/50 027A084	20825183	25 µF	84.5 mm	77 mm
ECF 32/485 A27 230/240/50 027A084	20825199	32 µF	84.5 mm	77 mm
ECF 45/485 A50 230/240/50 050A110	20820349	45 µF	110.0 mm	100 – 104 mm
ECF 60/485 A50 230/240/50 050A151	20566568	60 µF	151.0 mm	130 – 144 mm



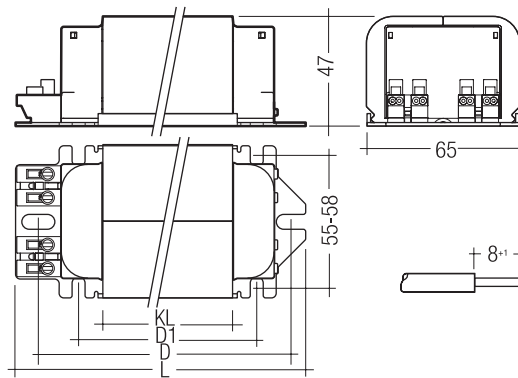
**OMF 37 – 60**  
OM design

**Product description**

- Choke
  - For systems with carrier frequency controllers
  - For protection class I applications
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

**Technical data**

Voltage	400 V, 50 Hz
Cutoff frequency	> 485 Hz
Push-in terminal	0.5 – 1.5 mm <sup>2</sup>



**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet
<b>Protection class I</b>			
OMF 37/485 400/50 055A125T	22175055	10 pieces	480 pieces
OMF 60/485 400/50 055A125T	20568154	10 pieces	480 pieces

**Specific technical data**

Type	Article number	Compensation	Length L	Hole spacing D
<b>Protection class I</b>				
OMF 37/485 400/50 055A125T	22175055	37 µF	125 mm	109.5 mm
OMF 60/485 400/50 055A125T	20568154	60 µF	125 mm	109.5 mm



**OM PAK 35 – 150 W standard version**  
Supply units

**Product description**

- Series OM ballast
  - Also suitable for high ambient temperatures up to 65 °C
  - Integrated standard superimposed-pulse ignitor ZRM 2.5 ES/C
  - Temperature-protected
  - Low-loss
  - Simple connection of all cables in a generously sized connection compartment; no tools required
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

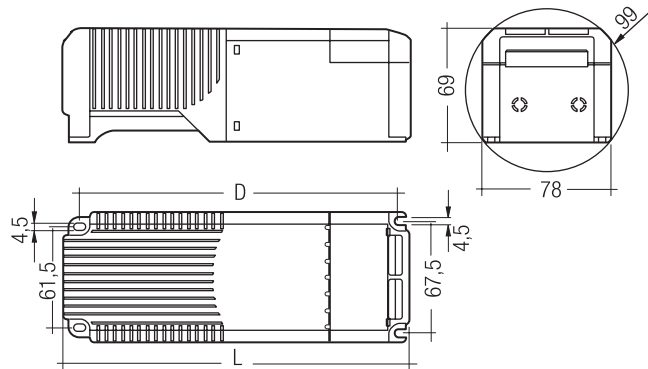


**Technical data**

Ignitor	ZRM 2.5-ES/C
Max. cable length to lamp (75 pF/m)	1.5 m



Lamp matrix, page 180



**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>OM PAK 35 M B113</b> 230/240V 50Hz	<b>22116414</b>	1 pieces	135 pieces	1.4 kg
<b>OM PAK 70 M B113</b> 230/240V 50Hz	<b>20889779</b>	1 pieces	135 pieces	1.8 kg
<b>OM PAK 150 M B113</b> 230/240V 50Hz	<b>22115639</b>	1 pieces	108 pieces	3.0 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Length L	Hole spacing D	Ambient temperature $t_a$	Losses	Mains current	$\lambda$
35 W	HI	0.53 A	<b>OM PAK 35 M B113</b>	22116414	230 / 240 V	50 Hz	A3	210 mm	193.5 mm	65 °C	8.6 W	0.22 A	0.95
70 W	HI	1.00 A	<b>OM PAK 70 M B113</b>	20889779	230 / 240 V	50 Hz	A3	210 mm	193.5 mm	55 °C	15.7 W	0.43 A	0.95
150 W	HI	1.80 A	<b>OM PAK 150 M B113</b>	22115639	230 / 240 V	50 Hz	A3	260 mm	243.5 mm	50 °C	24.0 W	0.76 A	0.95

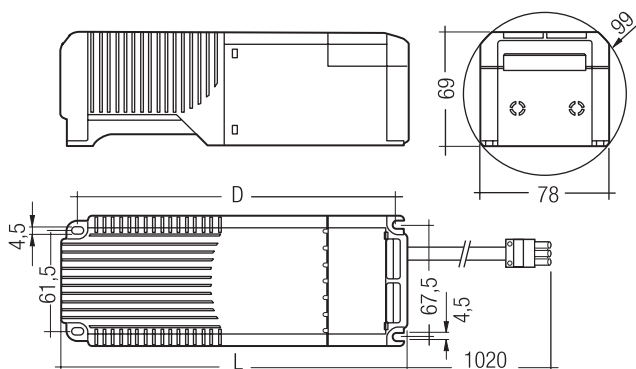




**OM PAK 35 – 150 W standard version with lamp cable**  
Supply units

**Product description**

- Series OM ballast
  - Also suitable for high ambient temperatures up to 65 °C
  - Rapid lamp starting and restarting thanks to integrated standard superimposed-pulse ignitor ZRM 2.5 ES/C
  - Temperature-protected
  - Low-loss
  - Simple connection of all cables in a generously sized connection compartment; no tools required
  - Halogen-free three-core lamp cable, length 1.0 m
  - With fitted ST-18 socket
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Ignitor	ZRM 2,5-ES/C
Max. cable length to lamp (75 pF/m)	1.5 m



Lamp matrix, page 180

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>OM PAK 35 M B513</b> 230-250V 50Hz 1200	<b>22116515</b>	1 pieces	84 pieces	1.4 kg
<b>OM PAK 70 M B513</b> 230-250V 50Hz 1200	<b>22116537</b>	1 pieces	84 pieces	1.8 kg
<b>OM PAK 150 M B513</b> 230-250V 50Hz 1200	<b>22116562</b>	1 pieces	75 pieces	3.0 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Length L	Hole spacing D	Ambient temperature $t_a$	Losses	Mains current	$\lambda$
35 W	HI	0.53 A	<b>OM PAK 35 M B513</b>	22116515	230 / 240 / 250 V	50 Hz	A3	210 mm	193.5 mm	65 °C	8.6 W	0.22 A	0.95
70 W	HI	1.00 A	<b>OM PAK 70 M B513</b>	22116537	230 / 240 / 250 V	50 Hz	A3	210 mm	193.5 mm	55 °C	15.7 W	0.38 A	0.95
150 W	HI	1.80 A	<b>OM PAK 150 M B513</b>	22116562	230 / 240 / 250 V	50 Hz	A3	260 mm	243.5 mm	50 °C	23.2 W	0.76 A	0.95



**OM PAK 35 – 150 W digital ignitor with timer**  
Supply units

**Product description**

- Series OM ballast
  - Also suitable for high ambient temperatures up to 65 °C
  - Rapid lamp starting and restarting thanks to integrated digital superimposed-pulse ignitor ZRM 2.5 ES/CT
  - Automatic shutdown for a faulty lamp
  - Temperature-protected
  - Low-loss
  - Simple connection of all cables in a generously sized connection compartment; no tools required
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

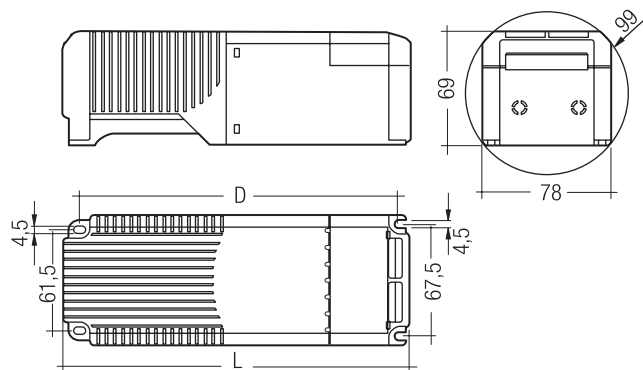


**Technical data**

Ignitor	ZRM 2,5-ES/CT
Max. cable length to lamp (75 pF/m)	1.5 m



Lamp matrix, page 180



**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>OM PAK 35 M B133</b> 230/240V 50Hz	<b>20889876</b>	1 pieces	135 pieces	1.4 kg
<b>OM PAK 70 M B133</b> 230/240V 50Hz	<b>22115608</b>	1 pieces	135 pieces	1.8 kg
<b>OM PAK 150 M B133</b> 230/240V 50Hz	<b>22115645</b>	1 pieces	108 pieces	3.0 kg

**Specific technical data**

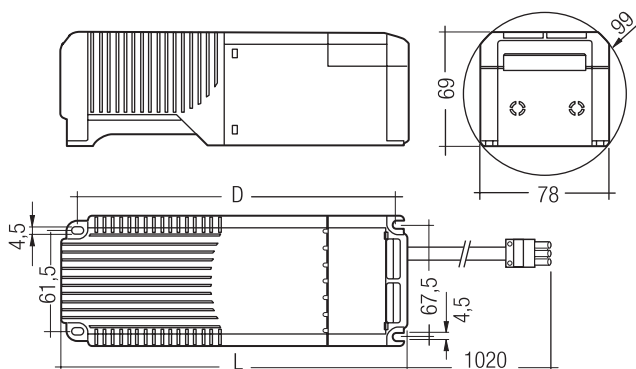
Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Length L	Hole spacing D	Ambient temperature $t_a$	Losses	Mains current	$\lambda$
35 W	HI	0.53 A	<b>OM PAK 35 M B133</b>	20889876	230 / 240 V	50 Hz	A3	210 mm	193.5 mm	65 °C	8.6 W	0.22 A	0.95
70 W	HI	1.00 A	<b>OM PAK 70 M B133</b>	22115608	230 / 240 V	50 Hz	A3	210 mm	193.5 mm	55 °C	15.7 W	0.43 A	0.95
150 W	HI	1.80 A	<b>OM PAK 150 M B133</b>	22115645	230 / 240 V	50 Hz	A3	260 mm	243.5 mm	50 °C	24.0 W	0.76 A	0.95



**OM PAK 35 – 150 W digital ignitor with timer and cable**  
Supply units

**Product description**

- Series OM ballast
  - Also suitable for high ambient temperatures up to 65 °C
  - Rapid lamp starting and restarting thanks to integrated digital superimposed-pulse ignitor ZRM 2.5 ES/CT
  - Automatic shutdown for a faulty lamp
  - Temperature-protected
  - Low-loss
  - Simple connection of all cables in a generously sized connection compartment; no tools required
  - Halogen-free three-core lamp cable, length 1.0 m
  - With fitted ST-18 socket
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Ignitor	ZRM 2,5-ES/CT
Max. cable length to lamp (75 pF/m)	1.5 m



Lamp matrix, page 180

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>OM PAK 35 M B533</b> 230-250V 50Hz 1200	<b>22116506</b>	1 pieces	84 pieces	1.4 kg
<b>OM PAK 70 M B533</b> 230-250V 50Hz 1200	<b>22116521</b>	1 pieces	84 pieces	1.8 kg
<b>OM PAK 150 M B533</b> 230-250V 50Hz 1200	<b>22116559</b>	1 pieces	75 pieces	3.0 kg

**Specific technical data**

Lamp wattage	Lamp type	Rated lamp current	Type	Article number	Voltage	Mains frequency	EEL	Length L	Hole spacing D	Ambient temperature $t_a$	Losses	Mains current	$\lambda$
35 W	HI	0.53 A	<b>OM PAK 35 M B533</b>	22116506	230 / 240 / 250 V	50 Hz	A3	210 mm	193.5 mm	65 °C	8.6 W	0.22 A	0.95
70 W	HI	1.00 A	<b>OM PAK 70 M B533</b>	22116521	230 / 240 / 250 V	50 Hz	A3	210 mm	193.5 mm	55 °C	15.7 W	0.38 A	0.95
150 W	HI	1.80 A	<b>OM PAK 150 M B533</b>	22116559	230 / 240 / 250 V	50 Hz	A3	260 mm	243.5 mm	50 °C	23.2 W	0.76 A	0.95



## Overview

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## Product information

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### Superimposed-pulse ignitors

#### Capacity range 35 – 400 W

Standard ignitors from ZRM 2-ES/C to ZRM 4.5-ES/C	Page 240
Digital ignitors from ZRM 2-ES/CT to ZRM 4.5-ES/CT	Page 240

#### Capacity range 35 – 400 / 750 W

Standard ignitor ZRM 6-ES/C	Page 242
Digital ignitor ZRM 6-ES/CT	Page 242
Standard ignitor ZRM 6-ES/C 400	Page 242
Standard ignitor ZRM 6-ES/C 3.5 kV	Page 242

#### Capacity range 250 – 2,000 W

Standard ignitor ZRM 12-ES/C	Page 244
Digital ignitor ZRM 12-ES/CT	Page 244
Standard ignitor ZRM 12-ES/C 400	Page 244

#### Capacity range 1,000 – 3,500 W

Standard ignitor ZRM 20-ES/B	Page 246
Standard ignitor ZRM 20-ES/B 400	Page 246

### Pulse ignitors

#### Digital

ZRM 4000 powerPULSE	Page 247
ZRM 4000/400 powerPULSE	Page 247

#### Standard with timer

ZRM 2300 C201	Page 248
ZRM 4000 C201	Page 248
ZRM 4000 B101	Page 248

#### Parallel impulse ignitor

ZRM 1000 A004	Page 249
ZRM 1000 A005	Page 249
ZRM 1200/400 A001	Page 250

### Ignitors with additional impedance

High-pressure mercury vapour lamp conversion kits ZRM A201W	Page 251
High-pressure mercury vapour lamp conversion kits ZRM B201W	Page 252



## Power changeover switches

ZRM U6L Page 253

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## Ignition time bridging

LRM 500 S Page 255

## Accessories

ZRM ES/C terminal cover Page 256

**Wiring diagrams and installation examples Page 257**

## Product overview

**Superimposed-pulse ignitors**

Series: ZRM ES/C, ZRM ES/CT, ZRM ES/B

- Standard superimposed-pulse ignitors
- Digital superimposed-pulse ignitors with automatic disconnection circuit and pulse-pause ignition
- For the following wattage ranges:  
HI 35 – 3,500 W  
HS 35 – 1,000 W

**Pulse ignitors**

Series: ZRM 4000, ZRM powerPULSE, ZRM 1000

- Pulse ignitors for tapped chokes
- Parallel pulser for an ignition voltage < 1,000 V
- Digital ZRM powerPULSE system with regulated ignition voltage and pulse-pause ignition

**Ignitors with additional impedance**

Series: ZRM A201W, B201W

Kits for upgrading from mercury to sodium vapour lamps:

- Integrated reversible thermal controller
- Premounted connecting cable
- Protection class II compatible
- Integrated digital superimposed-pulse ignitor with automatic disconnection
- Pulse-pause ignition: shorter reignition times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Automatic reset (< 1 s)

**Power changeover switches**

Series: ZRM U6M, ZRM U6L

Energy savings in street lighting:

- Reduction in luminous flux by switching to a lower power level
- Maintenance-free, independent and no-complication control system



## Ignitor matrix

Standard superimposed-pulse ignitors											Digital superimposed-pulse ignitors with switch-off function					Pulse ignitors								
	ZRM 2-ES/C	ZRM 2.5-ES/C	ZRM 4.5-ES/C	ZRM 6-ES/C	ZRM 6-ES/C 400	ZRM 6-ES/C 3.5 kV	ZRM 12-ES/C	ZRM 12-ES/C 400	ZRM 20-ES/B	ZRM 20-ES/B 400	ZRM 2-ES/CT	ZRM 2.5-ES/CT	ZRM 4.5-ES/CT	ZRM 6-ES/CT	ZRM 12-ES/CT	ZRM 4000 powerPULSE	ZRM 4000/400 powerPULSE	ZRM 2300 C201	ZRM 4000 C201	ZRM 4000 B101	ZRM 1000 A004	ZRM 1000 A005	ZRM 1200/400 A001	
Ignition voltage max. kV <sub>p</sub>	2.5	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0	5.0	2.5	5.0	5.0	5.0	5.0	4.1	4.1	2.3	4.5	4.5	0.9	0.9	1.4	
Lamp current I <sub>max</sub> A	1.0	3.0	4.6	5.0	6.0	5.0	12.0	12.7	20.0	20.0	1.0	3.0	4.6	5.0	12.0	-	-	-	-	-	-	-	-	
Metal halide lamps (HI)	35 W	●	○ <sup>6</sup>	○			○					●	○	○	●			●						
	70 W	● <sup>1</sup>	●	● <sup>6</sup>	○		○				● <sup>1</sup>	●	● <sup>6</sup>	○	○	●		● <sup>1</sup>	●					
	100 W		●	● <sup>6</sup>	○			○				●	● <sup>6</sup>	○	○	●		● <sup>1</sup>	●					
	150 W	● <sup>1</sup>	●	● <sup>6</sup>	○			○			● <sup>1</sup>	●	● <sup>6</sup>	○	○	●		● <sup>1</sup>	●					
	250 W		●	● <sup>6</sup>	○			○				●	● <sup>6</sup>	○	○	●			●			● <sup>3</sup>	● <sup>3</sup>	
	400 W			● <sup>6</sup>	●			○					● <sup>6</sup>	●	○	●			●			● <sup>3</sup>	● <sup>3</sup>	
	1,000 W							●		○					●	●			●			● <sup>3</sup>	● <sup>3</sup>	○
	1,800 W								● <sup>4</sup>	● <sup>5</sup>						● <sup>4</sup>	● <sup>5</sup>							
	2,000 W								●	●	○						●							○
	3,500 W									●														○
High-pressure sodium lamps (HS)	35 W	●									●													
	50 W	●									●							●						
	70 W	● <sup>1</sup>	● <sup>2</sup>	○ <sup>6</sup>							● <sup>1</sup>	●	○ <sup>6</sup>			●		● <sup>1</sup>						
	100 W		●	● <sup>6</sup>	○							●	● <sup>6</sup>	○	○	●			●	●				
	150 W		●	● <sup>6</sup>	○							●	● <sup>6</sup>	○	○	●			●	●				
	250 W		●	● <sup>6</sup>	○							●	● <sup>6</sup>	○	○	●			●	●				
	400 W			● <sup>6</sup>	●								● <sup>6</sup>	●	○	●			●	●				
	600 W					●		●	○						●	●	●		●					
	750 W					○											●							
	1,000 W							●	○						●	●			●					

- 1 For lamps with ignition voltages < 2.5 kV<sub>p</sub>
  - 2 For high-pressure sodium lamps 70 W with ignition voltage 4.0 – 5.0 kV<sub>p</sub>
  - 3 For lamps with ignition voltages < 1,000 V
  - 4 400 V lamps with 12.5 A lamp current
  - 5 230 V lamps with 17.3 A lamp current
  - 6 Recommended for outdoor applications
- recommended    ○ used for

## Standards

			EN 60926	EN 60927	EN 61347-2-1
Series	Type	Page			
Standard superimposed-pulse ignitors	ZRM 2-ES/C	Page 240		•	•
	ZRM 2.5-ES/C	Page 240		•	•
	ZRM 4.5-ES/C	Page 240		•	•
	ZRM 6-ES/C	Page 242		•	•
	ZRM 6-ES/C 400	Page 242		•	•
	ZRM 6-ES/C 3.5 kV	Page 242		•	•
	ZRM 12-ES/C	Page 244		•	•
	ZRM 12-ES/C 400	Page 244		•	•
	ZRM 20-ES/B	Page 246		•	•
	ZRM 20-ES/B 400	Page 246		•	•
Digital superimposed-pulse ignitors with switch-off function	ZRM 2-ES/CT	Page 240		•	•
	ZRM 2.5-ES/CT	Page 240		•	•
	ZRM 4.5-ES/CT	Page 240		•	•
	ZRM 6-ES/CT	Page 242			•
	ZRM 12-ES/CT	Page 244		•	•
Digital pulse ignitors ZRM powerPULSE	ZRM 4000 powerPULSE	Page 247		•	•
	ZRM 4000/400 powerPULSE	Page 247		•	•
Standard pulse ignitors with timer function	ZRM 2300 C201	Page 248	•		
	ZRM 4000 C201	Page 248	•		
	ZRM 4000 B101	Page 248	•		
Parallel pulse ignitor	ZRM 1000 A004	Page 249	•		
	ZRM 1000 A005	Page 249	•		
	ZRM 1200/400 A001	Page 250	•		
Ignitors with additional impedance	ZRM 50/35 A201W	Page 251			•
	ZRM 80/50 A201W	Page 251			•
	ZRM 80/50 B201W	Page 252			•
	ZRM 125/70 A201W	Page 251			•
	ZRM 125/70 B201W	Page 252			•

## Ignitors and power switches for HID

Ignitors for generating the ignition voltages needed by metal halide lamps and sodium lamps without internal starters use either superimposed-pulse or pulse technology. The innovative range of ignitors from Tridonic includes standard ignitors suitable for all commercially available high-intensity discharge lamps with wattages from 35 to 3,500 W, which require an ignition voltage between 800 and 5,000 V depending on the type of lamp.

The special feature of superimposed-pulse ignitors is that the ignition voltage is generated without placing a high-voltage load on the choke. Superimposed-pulse technology leads to a reproducible ignition response which does not depend on the control gear used and is unaffected by voltage fluctuations.

Pulse ignitors are operated with chokes tailored specifically for them. Integrated shutdown of defective lamps reduces the load on the chokes to a minimum. Restart attempts in pulse-pause mode reduce the load on the chokes still further.

Tridonic ignitors ensure lamps start reliably even if the mains voltage is as low as 198 V (switch-on voltage). The ignitor is switched-off as soon as the lamp starts to prevent damage to the lamp. Because of the high-quality narrow-tolerance components the switch-off voltage reaches the high value of 185 V.

The increase in temperature in the ignitor determines its area of application and is therefore an important criterion. Tridonic ignitors are characterised by minimal self-heating, which in turn gives luminaire designers extra creative freedom.

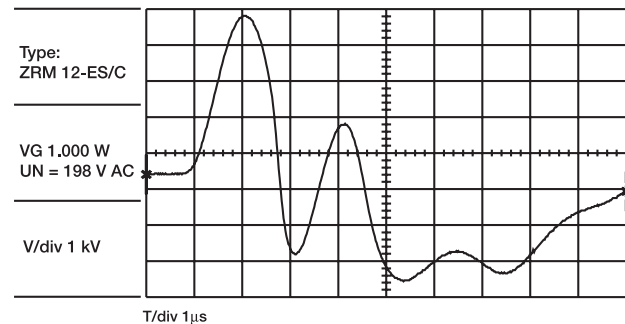
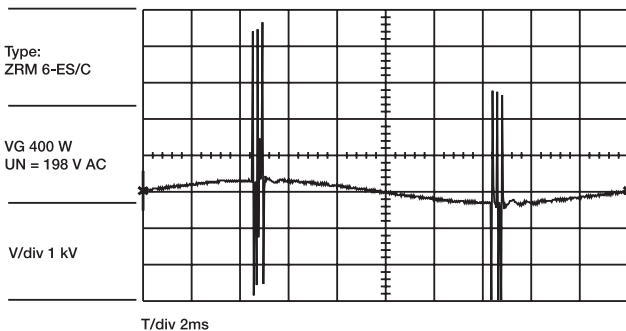
### Superimposed-pulse ignitors

In ignitors that operate on the superimposed principle the ignition voltage is generated by an integrated pulse transformer.



This transforms the mains voltage to the ignition voltage of up to 5 kV required by the lamp.

A cleverly designed circuit is used to control the ignition process. This means that superimposed-pulse ignitors from Tridonic have high system reliability and reproducibility of the ignition pulses, which are largely unaffected by fluctuations in the mains voltage.



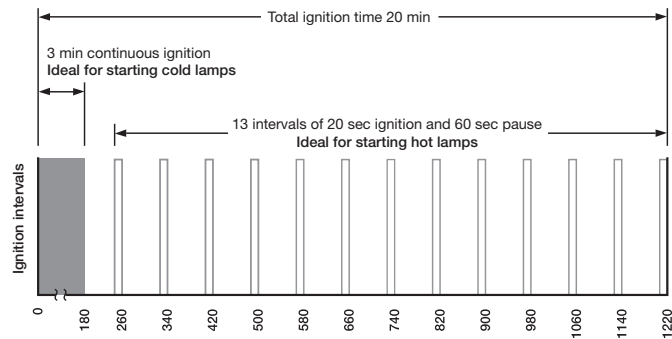
### Superimposed-pulse igniters with timers

Sodium lamps and metal halide lamps connected to conventional igniters begin to flicker at the end of their lives. This is avoided by ZRM ES/CT superimposed-pulse igniters with integrated digital timers and pulse-pause ignition.



The ZRM ES/CT igniter does not generate ignition pulses constantly but in a patented two-part rhythm, creating the optimum conditions for igniting the lamps.

The lamp has time to cool down in the pauses after ignition. This leads to much faster restarts for hot lamps. Thanks to pulse-pause ignition the system downtime is reduced considerably.



The  $\mu$ -chip of the integrated timer in the superimposed-pulse igniter digitally controls the logic for ignition and automatic shutdown. An automatic reset function is also integrated. This reset function is needed for lighting systems that operate 24 hours a day (tunnels, factories).

### Ignitor systems using pulse technology

In pulse igniters the high-voltage pulse is produced in conjunction with the choke. The igniter uses a separate tap on the choke, specially developed for pulse technology and designed for high ignition voltages.

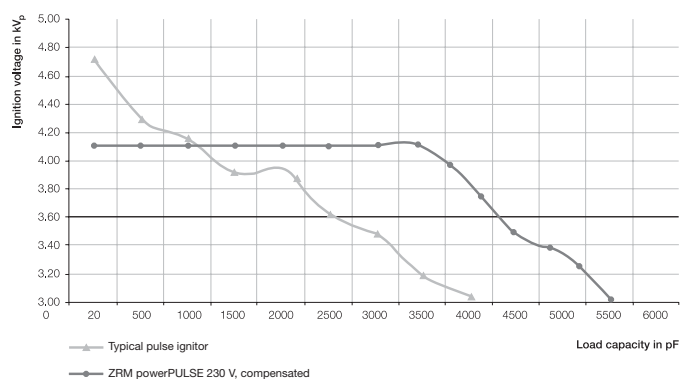


As the high-voltage pulse is generated in the choke for the ignition process it is possible to achieve very high ignition energy.

The digital ZRM powerPULSE from Tridonic compensates for the dependence of the output voltage on the mains voltage by using a microprocessor in the igniter to control the production of the ignition pulse. This ensures that the choke and luminaire wiring are not overloaded if there

is a mains overvoltage. It also ensures that in the event of a mains undervoltage or if there are extremely long connecting cables the required ignition energy is constantly available.

Comparison of various pulse igniters



The benefits of pulse/pause technology are evident in the ZRM powerPULSE igniter as this igniter reduces the restart time and EMC interference in the ignition phase.

Another feature is the integrated digital three-start counter. This stops the ignition process after three unsuccessful lamp starts to suppress lamp cycling when the lamp comes to the end of its life and avoid overloading the control gear with the high-voltage pulses.

### Power changeover switches

Power changeover switches are used predominantly in street lighting to reduce the lighting level by as much as 50 % at off-peak times and therefore also reduce energy costs by a significant amount.



Tridonic offers power changeover switches for lighting systems with or without a control line. If a control line is present then power changeover switch ZRM U6L is used. This is also available with an integrated timer.

The timer ensures that the lamp is operated for a defined period of time at full output during the start phase. This in turn ensures that the life of the lamp is not reduced unnecessarily.

If there is no control line then power changeover switch ZRM U6M is used. The on and off times can be programmed centrally at any time even after installation has been completed. ZRM U6M is suitable for magnetic chokes with power tapping and also for PCIS outdoor DIM electronic ballasts.

### Supplementary impedances

Supplementary impedances are used to upgrade existing luminaires with inefficient mercury vapour lamps to energy-efficient sodium vapour lamps.

Only one additional component is needed for the upgrade – the supplementary impedance with integrated digital ignitor. Because the existing choke is retained the upgrade is simple and cost-effective.



Supplementary impedances ZRM A001 and ZRM B001 from Tridonic have enhanced insulation and an integrated cut-out in the event of a lamp fault. They are therefore approved for protection class II applications. The supplementary impedances are available in two casing designs and are equipped with 500 mm long connectionwires.

### Ignition time bridging

Since high-intensity lamps require a certain starting time to reach their full output an additional lamp can be used to bridge this starting phase. The additional lamp provides sufficient light until the high-intensity lamp has completed the starting phase. The additional lamp is controlled by LRM 500. As soon as the high-intensity lamp produces enough light (about 90 % of full output) the additional lamp is switched-off.

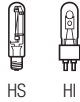


### Standards and approval marks

Igniters and power switches from Tridonic are ENEC certified, carry the CE mark and meet all the relevant European as well as international standards relating to safety, operation and electro-magnetic compatibility (EMC).

### Technical information and lamp matrix

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Data sheets" or "Lamp matrix"



ZRM 2-ES/C to ZRM 4.5-ES/C and ZRM 2-ES/CT to ZRM 4.5-ES/CT  
Capacity range 35 – 400 W

### Product description

ZRM 2-ES/C, ZRM 2.5-ES/C, ZRM 4.5-ES/C

- Standard superimposed ignitor

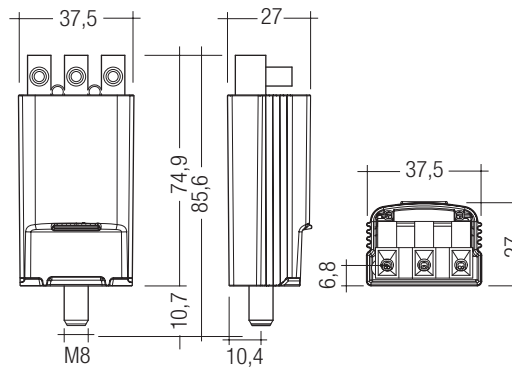
ZRM 2-ES/CT, ZRM 2.5-ES/CT, ZRM 4.5-ES/CT

- Digital superimposed-pulse ignitors with automatic disconnection circuit
- Pulse/pause ignition: Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Disconnection of the ignition function after 20 min
- Automatic reset (< 1 s)



### Note

- ZRM 2-ES/C and ZRM 2-ES/CT only suitable for metal halide lamps and for sodium vapour lamps with an ignition voltage < 2.5 kV<sub>p</sub> only
  - ZRM 2.5-ES/C and ZRM 2.5-ES/CT also suitable for sodium vapour lamp HST-DE 70 W
  - ZRM 4.5-ES/C and ZRM 4.5-ES/CT recommended for outdoor applications
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



### Technical data

Max. casing temperature	105 °C
Min. ambient temperature	-30 °C
Screw terminal	0.5 – 2.5 mm <sup>2</sup>

### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Standard ignitor</b>				
ZRM 2-ES/C	87500080	50 pieces	1,200 pieces	0.13 kg
ZRM 2.5-ES/C	87500081	50 pieces	1,200 pieces	0.13 kg
ZRM 4.5-ES/C	87500082	50 pieces	1,200 pieces	0.13 kg
<b>Digital ignitor</b>				
ZRM 2-ES/CT	87500085	50 pieces	1,200 pieces	0.13 kg
ZRM 2.5-ES/CT	87500086	50 pieces	1,200 pieces	0.13 kg
ZRM 4.5-ES/CT	87500087	50 pieces	1,200 pieces	0.13 kg



Ignitor matrix, page 235

Standards, page 236

Wiring diagrams and installation examples, page 257

Specific technical data

Type	Article number	Permitted input voltage	Mains frequency	Max. permitted lamp current	Ignition voltage	Lamp wattage		Permitted load capacitance	Max. cable length to lamp (75 pF/m)
						Sodium vapour lamps	Metal halide lamps		
<b>Standard ignitor</b>									
ZRM 2-ES/C	87500080	198 – 264 V	50 / 60 Hz	1.0 A	1.8 – 2.5 kV <sub>p</sub>	35 – 70 W	70 W	20 – 300 pF	4.0 m
ZRM 2.5-ES/C	87500081	198 – 264 V	50 / 60 Hz	3.0 A	4.0 – 5.0 kV <sub>p</sub>	70 – 250 W	35 – 250 W	20 – 100 pF	1.5 m
ZRM 4.5-ES/C	87500082	198 – 264 V	50 / 60 Hz	4.6 A	4.0 – 5.0 kV <sub>p</sub>	70 – 400 W	35 – 400 W	20 – 100 pF	1.5 m
<b>Digital ignitor</b>									
ZRM 2-ES/CT	87500085	198 – 264 V	50 / 60 Hz	1.0 A	1.8 – 2.5 kV <sub>p</sub>	35 – 70 W	70 W	20 – 300 pF	4.0 m
ZRM 2.5-ES/CT	87500086	198 – 264 V	50 / 60 Hz	3.0 A	4.0 – 5.0 kV <sub>p</sub>	70 – 250 W	35 – 250 W	20 – 100 pF	1.5 m
ZRM 4.5-ES/CT	87500087	198 – 264 V	50 / 60 Hz	4.6 A	4.0 – 5.0 kV <sub>p</sub>	70 – 400 W	35 – 400 W	20 – 100 pF	1.5 m

Self-heating:

ZRM 2-ES/C and ZRM 2-ES/CT

at I<sub>b</sub> = 0.54 A (35 W) 0.2 K

at I<sub>b</sub> = 1.00 A (70 W) 2.5 K

ZRM 2.5-ES/C and ZRM 2.5-ES/CT

at I<sub>b</sub> = 0.54 A (35 W) 0.1 K

at I<sub>b</sub> = 1.00 A (70 W) 2.5 K

at I<sub>b</sub> = 1.20 A (100 W) 4.0 K

at I<sub>b</sub> = 1.80 A (150 W) 9.5 K

at I<sub>b</sub> = 3.00 A (250 W) 27.0 K

ZRM 4.5-ES/C and ZRM 4.5-ES/CT

at I<sub>b</sub> = 0.54 A (35 W) 0.1 K

at I<sub>b</sub> = 1.00 A (70 W) 1.0 K

at I<sub>b</sub> = 1.20 A (100 W) 2.0 K

at I<sub>b</sub> = 1.80 A (150 W) 6.5 K

at I<sub>b</sub> = 3.00 A (250 W) 14.0 K

at I<sub>b</sub> = 4.60 A (400 W) 33.5 K

Losses:

ZRM 2-ES/C and ZRM 2-ES/CT

at I<sub>b</sub> = 0.54 A (35 W) 0.05 W

at I<sub>b</sub> = 1.00 A (70 W) 0.20 W

ZRM 2.5-ES/C and ZRM 2.5-ES/CT

at I<sub>b</sub> = 0.54 A (35 W) 0.06 W

at I<sub>b</sub> = 1.00 A (70 W) 0.21 W

at I<sub>b</sub> = 1.20 A (100 W) 0.31 W

at I<sub>b</sub> = 1.80 A (150 W) 0.72 W

at I<sub>b</sub> = 3.00 A (250 W) 2.10 W

ZRM 4.5-ES/C and ZRM 4.5-ES/CT

at I<sub>b</sub> = 0.54 A (35 W) 0.03 W

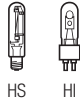
at I<sub>b</sub> = 1.00 A (70 W) 0.11 W

at I<sub>b</sub> = 1.20 A (100 W) 0.15 W

at I<sub>b</sub> = 1.80 A (150 W) 0.35 W

at I<sub>b</sub> = 3.00 A (250 W) 1.00 W

at I<sub>b</sub> = 4.60 A (400 W) 2.50 W



ZRM 6-ES/C, ZRM 6-ES/CT, ZRM 6-ES/C 400 and ZRM 6-ES/C 3.5 kV  
Capacity range 35 – 400 / 750 W

### Product description

ZRM 6-ES/C, ZRM 6-ES/C 400 and ZRM 6-ES/C 3.5 kV

- Standard superimposed ignitor

ZRM 6-ES/CT

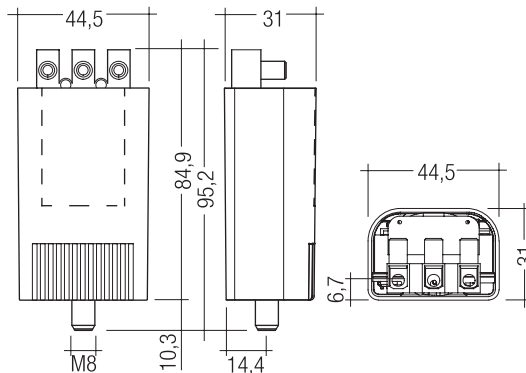
- Digital superimposed-pulse ignitors with automatic disconnection circuit
- Pulse/pause ignition: Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Disconnection of the ignition function after 20 min
- Automatic reset (< 1 s)

### Note

- ZRM 6-ES/C and ZRM 6-ES/CT only suitable for metal halide lamps with an ignition voltage 4 – 5 kV<sub>p</sub>
  - ZRM 6-ES/C 400 not suitable for metal halide lamps
  - ZRM 6-ES/C 3.5 kV not suitable for high-pressure sodium lamps
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

### Technical data

Max. casing temperature	105 °C
Min. ambient temperature	-30 °C
Screw terminal	2.5 – 6 mm <sup>2</sup>



### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Standard ignitor</b>				
ZRM 6-ES/C	87500083	20 pieces	520 pieces	0.21 kg
<b>Digital ignitor</b>				
ZRM 6-ES/CT	87500088	20 pieces	520 pieces	0.21 kg
<b>Standard ignitor 400 Volt</b>				
ZRM 6-ES/C 400	87500094	20 pieces	520 pieces	0.21 kg
<b>Standard ignitor 3.5 kV</b>				
ZRM 6-ES/C 3.5 kV	87500034	20 pieces	520 pieces	0.21 kg



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**Specific technical data**

Type	Article number	Permitted input voltage	Mains frequency	Max. permitted lamp current	Ignition voltage	Lamp wattage		Permitted load capacitance	Max. cable length to lamp (75 pF/m)
						Sodium vapour lamps	Metal halide lamps		
<b>Standard ignitor</b>									
ZRM 6-ES/C	87500083	198 – 264 V	50 / 60 Hz	5 A	4 – 5 kV <sub>p</sub>	70 – 400 W	35 – 400 W	20 – 100 pF	1.5 m
<b>Digital ignitor</b>									
ZRM 6-ES/CT	87500088	198 – 264 V	50 / 60 Hz	5 A	4 – 5 kV <sub>p</sub>	70 – 400 W	35 – 400 W	20 – 100 pF	1.5 m
<b>Standard ignitor 400 Volt</b>									
ZRM 6-ES/C 400	87500094	360 – 466 V	50 / 60 Hz	6 A	4 – 5 kV <sub>p</sub>	600 – 750 W	–	20 – 200 pF	3.0 m
<b>Standard ignitor 3.5 kV</b>									
ZRM 6-ES/C 3.5 kV	87500034	198 – 264 V	50 / 60 Hz	5 A	3 – 4 kV <sub>p</sub>	–	100 – 575 W	20 – 100 pF	1.5 m

**Self-heating:**

**ZRM 6-ES/C and ZRM 6-ES/CT**

at I <sub>b</sub> = 1.00 A (70 W)	1.1 K
at I <sub>b</sub> = 1.20 A (100 W)	1.9 K
at I <sub>b</sub> = 1.80 A (150 W)	3.7 K
at I <sub>b</sub> = 3.00 A (250 W)	9.9 K
at I <sub>b</sub> = 4.60 A (400 W)	22.2 K

**ZRM 6-ES/C 400**

at I <sub>b</sub> = 3.40 A (600 W)	12.9 K
at I <sub>b</sub> = 3.62 A (600 W)	14.3 K
at I <sub>b</sub> = 4.50 A (750 W)	21.8 K

**ZRM 6-ES/C 3.5 kV**

at I <sub>b</sub> = 1.10 A (100 W)	1.8 K
at I <sub>b</sub> = 3.70 A (450 W)	15.0 K
at I <sub>b</sub> = 4.60 A (575 W)	22.2 K

**Losses:**

**ZRM 6-ES/C and ZRM 6-ES/CT**

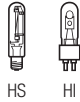
at I <sub>b</sub> = 1.00 A (70 W)	0.10 W
at I <sub>b</sub> = 1.20 A (100 W)	0.15 W
at I <sub>b</sub> = 1.80 A (150 W)	0.35 W
at I <sub>b</sub> = 3.00 A (250 W)	1.00 W
at I <sub>b</sub> = 4.60 A (400 W)	2.40 W

**ZRM 6-ES/C 400**

at I <sub>b</sub> = 3.40 A (600 W)	1.30 W
at I <sub>b</sub> = 3.62 A (600 W)	1.45 W
at I <sub>b</sub> = 4.50 A (750 W)	2.33 W

**ZRM 6-ES/C 3.5 kV**

at I <sub>b</sub> = 1.10 A (100 W)	0.13 W
at I <sub>b</sub> = 3.70 A (450 W)	1.53 W
at I <sub>b</sub> = 4.60 A (575 W)	2.42 W



**ZRM 12-ES/C, ZRM 12-ES/CT and ZRM 12-ES/C 400**  
Capacity range 250 – 2,000 W

**Product description**

ZRM 12-ES/C and ZRM 12-ES/C 400

- Standard superimposed ignitor

ZRM 12-ES/CT

- Digital superimposed-pulse ignitors with automatic disconnection circuit
- Pulse/pause ignition: Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Disconnection of the ignition function after 20 min
- Automatic reset (< 1 s)

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

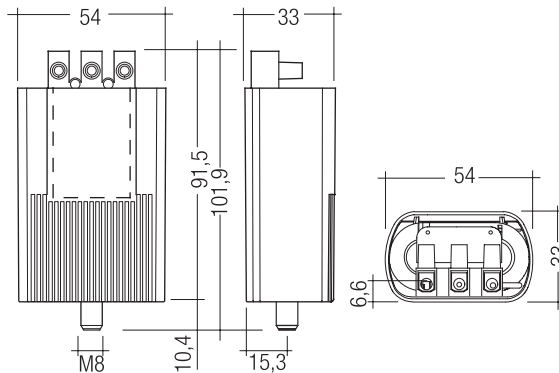
Max. casing temperature	105 °C
Min. ambient temperature	-30 °C
Screw terminal	2.5 – 6 mm <sup>2</sup>



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**Standards**, page 236

**Wiring diagrams and installation examples**, page 257



**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Standard ignitor</b>				
ZRM 12-ES/C	87500084	20 pieces	400 pieces	0.28 kg
<b>Digital ignitor</b>				
ZRM 12-ES/CT	87500089	20 pieces	400 pieces	0.28 kg
<b>Standard ignitor 400 Volt</b>				
ZRM 12-ES/C 400	87500095	20 pieces	400 pieces	0.28 kg

**Specific technical data**

Type	Article number	Permitted input voltage	Mains frequency	Max. permitted lamp current	Ignition voltage	Lamp wattage		Permitted load capacitance	Max. cable length to lamp (75 pF/m)
						Sodium vapour lamps	Metal halide lamps		
<b>Standard ignitor</b>									
ZRM 12-ES/C	87500084	198 – 264 V	50 / 60 Hz	12.0 A	4 – 5 kV <sub>p</sub>	250 – 1,000 W	250 – 1,000 W	20 – 200 pF	3 m
<b>Digital ignitor</b>									
ZRM 12-ES/CT	87500089	198 – 264 V	50 / 60 Hz	12.0 A	4 – 5 kV <sub>p</sub>	250 – 1,000 W	250 – 1,000 W	20 – 200 pF	3 m
<b>Standard ignitor 400 Volt</b>									
ZRM 12-ES/C 400	87500095	342 – 440 V	50 / 60 Hz	12.7 A	4 – 5 kV <sub>p</sub>	600 – 1,000 W	1,000 – 2,000 W	20 – 200 pF	3 m

**Self-heating:**

**ZRM 12-ES/C**

at I <sub>b</sub> = 4.60 A (400 W)	5.9 K
at I <sub>b</sub> = 6.20 A (600 W)	10.3 K
at I <sub>b</sub> = 7.00 A (750 W)	13.2 K
at I <sub>b</sub> = 10.30 A (1,000 W)	27.2 K
at I <sub>b</sub> = 12.00 A (max. W)	36.6 K

**ZRM 12-ES/C 400**

at I <sub>b</sub> = 3.40 A (600 W)	3.5 K
at I <sub>b</sub> = 3.62 A (600 W)	4.0 K
at I <sub>b</sub> = 4.50 A (750 W)	5.8 K
at I <sub>b</sub> = 6.80 A (1,500 W)	12.7 K
at I <sub>b</sub> = 10.30 A (2,000 W)	27.2 K
at I <sub>b</sub> = 12.70 A (max. W)	36.6 K

**ZRM 12-ES/CT**

at I <sub>b</sub> = 3.00 A (250 W)	2.9 K
at I <sub>b</sub> = 4.60 A (400 W)	5.9 K
at I <sub>b</sub> = 6.20 A (600 W)	10.3 K
at I <sub>b</sub> = 7.00 A (750 W)	13.2 K
at I <sub>b</sub> = 10.30 A (1,000 W)	27.2 K
at I <sub>b</sub> = 12.00 A (max. W)	36.6 K

**Losses:**

**ZRM 12-ES/C**

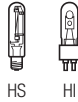
at I <sub>b</sub> = 4.60 A (400 W)	0.82 W
at I <sub>b</sub> = 6.20 A (600 W)	1.54 W
at I <sub>b</sub> = 7.00 A (750 W)	2.02 W
at I <sub>b</sub> = 10.30 A (1,000 W)	4.68 W
at I <sub>b</sub> = 12.00 A (max. W)	6.73 W

**ZRM 12-ES/C 400**

at I <sub>b</sub> = 3.40 A (600 W)	0.45 W
at I <sub>b</sub> = 3.62 A (600 W)	0.51 W
at I <sub>b</sub> = 4.50 A (750 W)	0.72 W
at I <sub>b</sub> = 6.80 A (1,500 W)	1.86 W
at I <sub>b</sub> = 10.30 A (2,000 W)	4.68 W
at I <sub>b</sub> = 12.70 A (max. W)	6.73 W

**ZRM 12-ES/CT**

at I <sub>b</sub> = 3.00 A (250 W)	0.35 W
at I <sub>b</sub> = 4.60 A (400 W)	0.82 W
at I <sub>b</sub> = 6.20 A (600 W)	1.54 W
at I <sub>b</sub> = 7.00 A (750 W)	2.02 W
at I <sub>b</sub> = 10.30 A (1,000 W)	4.68 W
at I <sub>b</sub> = 12.00 A (max. W)	6.73 W



**ZRM 20-ES/B and ZRM 20-ES/B 400**  
Capacity range 1,000 – 3,500 W

**Product description**

- Standard superimposed ignitor
- For high wattages with very low self heating

**Note**

- ZRM 20-ES/B 400 not suitable for high-pressure sodium lamps
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

**Technical data**

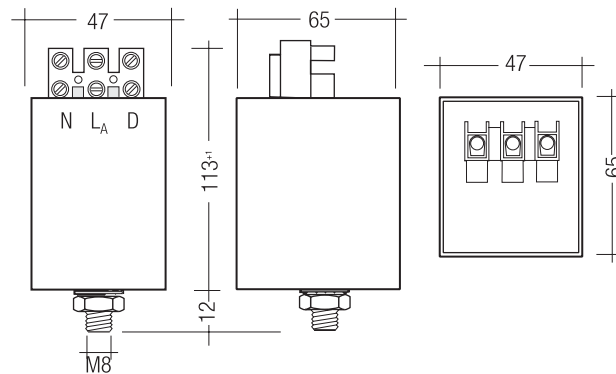
Max. casing temperature	105 °C
Min. ambient temperature	-30 °C
Screw terminal	2.5 – 10 mm <sup>2</sup>



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Standards, page 236

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**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Standard ignitor</b>				
ZRM 20-ES/B	20826280	15 pieces	360 pieces	0.75 kg
<b>Standard ignitor 400 Volt</b>				
ZRM 20-ES/B 400 V	20826425	15 pieces	360 pieces	0.75 kg

**Specific technical data**

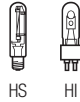
Type	Article number	Permitted input voltage	Mains frequency	Max. permitted lamp current	Ignition voltage	Lamp wattage		Permitted load capacitance	Max. cable length to lamp (75 pF/m)
						Sodium vapour lamps	Metal halide lamps		
<b>Standard ignitor</b>									
ZRM 20-ES/B	20826280	198 – 264 V	50 / 60 Hz	20 A	3.5 – 5 kV <sub>p</sub>	1,000 W	1,000 – 2,000 W	20 – 200 pF	3 m
<b>Standard ignitor 400 Volt</b>									
ZRM 20-ES/B 400 V	20826425	342 – 490 V	50 / 60 Hz	20 A	4.0 – 5 kV <sub>p</sub>	–	2,000 – 3,500 W	20 – 200 pF	3 m

**Self-heating:**

ZRM 20-ES/B	
at I <sub>b</sub> = 10.30 A (1,000 W)	9.5 K
at I <sub>b</sub> = 16.20 A (2,000 W)	26.0 K
ZRM 20-ES/B 400	
at I <sub>b</sub> = 16.20 A (2,000 W)	10.5 K
at I <sub>b</sub> = 18.00 A (3,500 W)	28.0 K

**Losses:**

ZRM 20-ES/B	
at I <sub>b</sub> = 10.30 A (1,000 W)	1.8 W
at I <sub>b</sub> = 16.20 A (2,000 W)	5.9 W
ZRM 20-ES/B 400	
at I <sub>b</sub> = 16.20 A (2,000 W)	2.9 W
at I <sub>b</sub> = 18.00 A (3,500 W)	9.3 W



**ZRM 4000 and 4000/400 powerPULSE**  
Digital

**Product description**

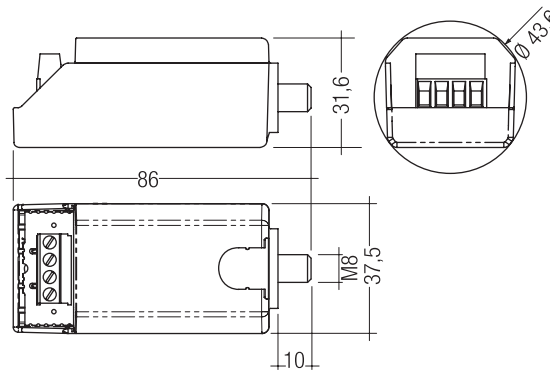
- Innovative digital pulse ignitor
- Pulse/pause ignition: Shorter restart times, minimum downtime
- No annoying flashing
- Silent operation
- Low weight
- Regulated maximum ignition voltage and therefore enhanced safety for the choke
- Also suitable for special sodium vapour lamps (Plus, Super, XL)
- Screw terminals for 2.5 mm<sup>2</sup>

**Note**

- ZRM 4000 powerPULSE only suitable for metal halide lamps with an ignition voltage > 2.5 kV<sub>p</sub>
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Number of pulses per mains half-wave	1
Pulse width at 90% ignition voltage	> 10 μs
Phase angle of the ignition pulse	72 / 252 °el
Min. cable length to lamp	0.2 m
Max. casing temperature	85 °C
Min. ambient temperature	-30 °C
Screw terminal	0.5 – 2.5 mm <sup>2</sup>



**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
ZRM 4000 powerPULSE	86458458	50 pieces	1,200 pieces	0.052 kg
ZRM 4000/400 powerPULSE	86458459	50 pieces	1,200 pieces	0.058 kg



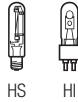
Ignitor matrix, page 235

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**Specific technical data**

Type	Article number	Permitted input voltage	Mains frequency	Ignition voltage	Losses at nominal voltage	Lamp wattage		Permitted load capacitance	Max. cable length to lamp
						Sodium vapour lamps	Metal halide lamps		
ZRM 4000 powerPULSE	86458458	198 – 264 V	50 / 60 Hz	4.1 kV <sub>p</sub>	0.9 W	70 – 1,000 W	35 – 1,800 W	20 – 4,000 pF	40 m
ZRM 4000/400 powerPULSE	86458459	342 – 484 V	50 / 60 Hz	4.1 kV <sub>p</sub>	1.5 W	600 – 750 W	1,800 – 2,000 W	20 – 4,000 pF	40 m



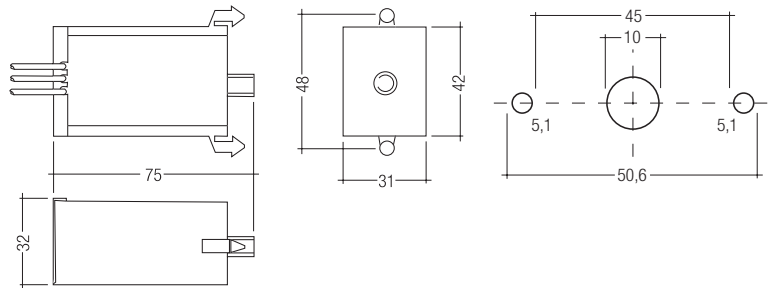
**ZRM 2300 and ZRM 4000**  
Standard with timer

**Product description**

- Snap-in lugs
- Type of protection IP20
- Connection via flexible wires 3 x 0.75 mm<sup>2</sup>
- Cable length 340 mm
- Pulse/pause ignition: (ZRM 2300 C201 and ZRM 4000 C201):  
pulse: 16 s; pause: 112 s; time-out: 15 min

**Note**

- ZRM 2300 C201 and ZRM 4000 C201 with digital timer:  
disconnection of the ignition function after 15 min
  - ZRM 4000 B101 with analogue timer: disconnection of  
the ignition function after 2 – 10 min, not ENEC certified
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



**Technical data**

Number of pulses per mains half-wave	1
Pulse width at 90% ignition voltage	> 2 μs
Phase angle of the ignition pulse	60 – 90 °el / 240 – 270 °el
Cable length to lamp	see data sheet
Max. casing temperature	80 °C
Min. ambient temperature	-40 °C

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
ZRM 2300 C201	87500000	40 pieces	1,440 pieces	0.045 kg
ZRM 4000 B101	87500002	40 pieces	1,440 pieces	0.053 kg
ZRM 4000 C201	87500001	40 pieces	1,440 pieces	0.053 kg



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**Specific technical data**

Type	Article number	Permitted input voltage	Mains frequency	Ignition voltage	Lamp wattage		Permitted load capacitance
					Sodium vapour lamps	Metal halide lamps	
ZRM 2300 C201	87500000	198 – 254 V	50 Hz	2.3 kV <sub>p</sub>	50 – 70 W	–	see the data sheet
ZRM 4000 B101	87500002	198 – 254 V	50 Hz	4.5 kV <sub>p</sub>	100 – 400 W	–	see the data sheet
ZRM 4000 C201	87500001	198 – 254 V	50 Hz	4.5 kV <sub>p</sub>	100 – 1,000 W	35 – 1,000 W	see the data sheet



**ZRM 1000 A004 and A005**  
Parallel impulse ignitor

**Product description**

- Parallel pulse ignitor
- For metal halide lamps
- Compact dimensions
- ZRM 1000 A005 encapsulated

**Note**

- Only suitable for metal halide lamps with an ignition voltage < 900 V
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Number of pulses per mains half-wave	1
Phase angle of the ignition pulse	60 – 90 °el
Max. casing temperature	90 °C
Min. ambient temperature	-30 °C
Screw terminal	0.5 – 2.5 mm <sup>2</sup>

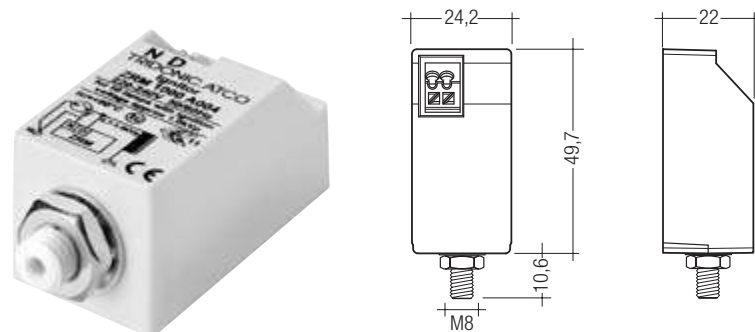


Fig. 1

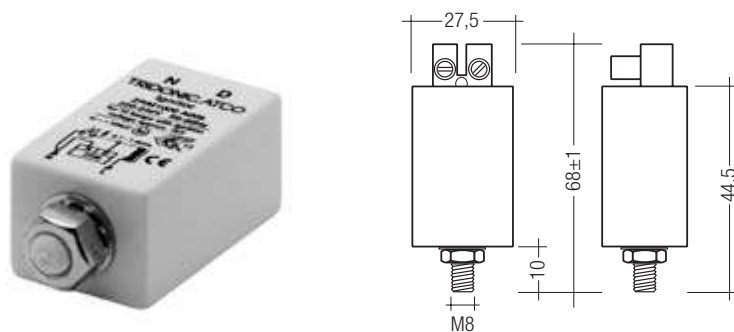


Fig. 2



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**Ordering data**

Type	Article number	Figure	Packaging, carton	Packaging, pallet	Weight per pcs.
ZRM 1000 A004	87500067	1	50 pieces	2,600 pieces	0.02 kg
ZRM 1000 A005	87500110	2	50 pieces	2,600 pieces	0.05 kg

**Specific technical data**

Type	Article number	Figure	Permitted input voltage	Mains frequency	Self-heating during ignition	Ignition voltage	Losses during ignition	Lamp wattage Metal halide lamps	Permitted load capacitance	Pulse width at 560 V ignition voltage	Max. cable length to lamp
ZRM 1000 A004	87500067	1	198 – 264 V	50 / 60 Hz	8 K	0.65 – 0.9 kV <sub>p</sub>	1.6 W	250 – 1,000 W	20 – 4,000 pF	420 – 460 µs	40 m
ZRM 1000 A005	87500110	2	198 – 264 V	50 / 60 Hz	3 K	0.85 – 1.1 kV <sub>p</sub>	0.6 W	250 – 1,000 W	20 – 10,000 pF	500 – 550 µs	100 m



**ZRM 1200/400 A001**  
Parallel impulse ignitor

**Product description**

- Parallel pulse ignitor for 400 V
- For metal halide lamps
- Compact dimensions
- Screw terminals for 2.5 mm<sup>2</sup>

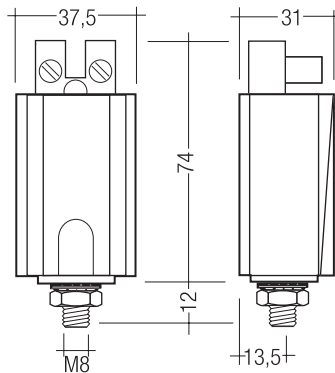
**Note**

- Only suitable for metal halide lamps with an ignition voltage < 900 V
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Number of pulses per mains half-wave	1
Pulse width at 900 V ignition voltage	400 – 450 µs
Phase angle of the ignition pulse	60 – 90 °el
Min. cable length to lamp	0.2 m
Max. casing temperature	100 °C
Min. ambient temperature	-30 °C
Screw terminal	0.75 – 2.5 mm <sup>2</sup>



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**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
ZRM 1200/400 A001	89121941	50 pieces	1,200 pieces	0.17 kg

**Specific technical data**

Type	Article number	Permitted input voltage	Mains frequency	Self-heating during ignition	Ignition voltage	Losses during ignition	Lamp wattage Metal halide lamps	Permitted load capacitance	Max. cable length to lamp
ZRM 1200/400 A001	89121941	376 – 440 V	50 / 60 Hz	35 K	1 – 1.4 kV <sub>0</sub>	3.8 W	2,000 W	20 – 10,000 pF	100 m



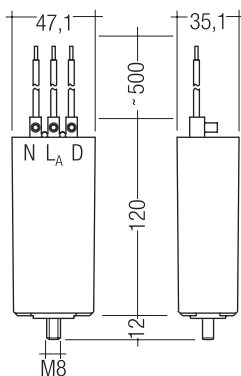


## ZRM A201W

High-pressure mercury vapour lamp conversion kits

### Product description

- Integrated reversible thermal controller
  - Premounted connecting cable 3 x 1 mm<sup>2</sup>, 8 mm stripped with end sleeves, 500 mm long, double insulation for protection class II applications
  - Protection class II compatible with the use of terminal cover and cable ties
  - Integrated digital superimposed-pulse ignitor with automatic disconnection
  - Pulse/pause ignition: Shorter restart times, minimum downtime
  - Suppression of the cycling effect with 3-start counter
  - Automatic reset (< 1 s)
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



### Technical data

Max. casing temperature	105 °C
Min. ambient temperature	-30 °C



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### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Standard ignitor</b>				
ZRM 50/35 A201W	22175202	25 pieces	600 pieces	0.53 kg
ZRM 80/50 A201W	22175200	25 pieces	600 pieces	0.53 kg
ZRM 125/70 A201W	22175201	25 pieces	600 pieces	0.53 kg

### Specific technical data

Type	Article number	Permitted input voltage	Mains frequency	Max. permitted lamp current	Temperature rise	Ignition voltage	Losses	Upgrade kit from high-pressure mercury to high-pressure sodium vapour lamps	Permitted load capacitance	Max. cable length to lamp
<b>Standard ignitor</b>										
ZRM 50/35 A201W	22175202	198 – 264 V	50 / 60 Hz	0.53 A	~ 25 K	1.8 – 2.5 kV <sub>p</sub>	~ 3.9 W	HM 50 to HS 35 W	200 pF	3 m
ZRM 80/50 A201W	22175200	198 – 264 V	50 / 60 Hz	0.76 A	~ 19 K	1.8 – 2.5 kV <sub>p</sub>	~ 3.6 W	HM 80 to HS 50 W	200 pF	3 m
ZRM 125/70 A201W	22175201	198 – 264 V	50 / 60 Hz	1.00 A	~ 30 K	1.8 – 2.5 kV <sub>p</sub>	~ 8.7 W	HM 125 to HS 70 W	200 pF	3 m



### ZRM B201W

High-pressure mercury vapour lamp conversion kits

#### Product description

- Integrated reversible thermal controller
- Premounted connecting cable 3 x 1 mm<sup>2</sup>, 8 mm stripped with end sleeves, 500 mm long, double insulation for protection class II applications
- Protection class II compatible with the use of terminal cover and cable ties
- Integrated digital superimposed-pulse ignitor with automatic disconnection
- Pulse/pause ignition: Shorter restart times, minimum downtime
- Suppression of the cycling effect with 3-start counter
- Automatic reset (< 1 s)

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

#### Technical data

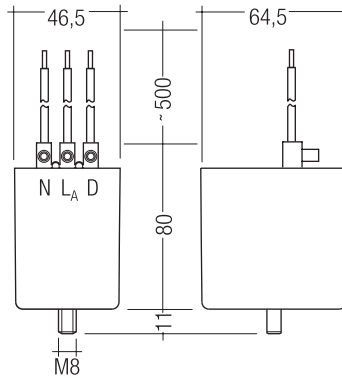
Max. casing temperature	105 °C
Min. ambient temperature	-30 °C



Ignitor matrix, page 235

Standards, page 236

Wiring diagrams and installation examples, page 257



#### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Standard ignitor</b>				
ZRM 80/50 B201W	22175203	30 pieces	720 pieces	0.54 kg
ZRM 125/70 B201W	22175204	30 pieces	720 pieces	0.54 kg

#### Specific technical data

Type	Article number	Permitted input voltage	Mains frequency	Max. permitted lamp current	Temperature rise	Ignition voltage	Losses	Upgrade kit from high-pressure mercury to high-pressure sodium vapour lamps	Permitted load capacitance	Max. cable length to lamp
<b>Standard ignitor</b>										
ZRM 80/50 B201W	22175203	198 – 264 V	50 / 60 Hz	0.76 A	~ 27 K	1.8 – 2.5 kV <sub>p</sub>	~ 3.6 W	HM 80 to HS 50 W	200 pF	3 m
ZRM 125/70 B201W	22175204	198 – 264 V	50 / 60 Hz	1.00 A	~ 50 K	1.8 – 2.5 kV <sub>p</sub>	~ 8.7 W	HM 125 to HS 70 W	200 pF	3 m



**ZRM U6L / ZRM U6L-T**  
Energy savings in street lighting

**Product description**

Switching to a lower power stage reduces the luminous flux. This enables energy savings to be made without affecting the life of the lamp. According to lamp manufacturers, lamps should always be started at 100 % output. In the case of ZRM U6L, this can be achieved with a separate time relay at the central signal transmitter. ZRM U6L/T has a built-in delay. After every interruption in the power supply the lamp is operated at 100 % output for a period of 330 seconds irrespective of the light value selected.

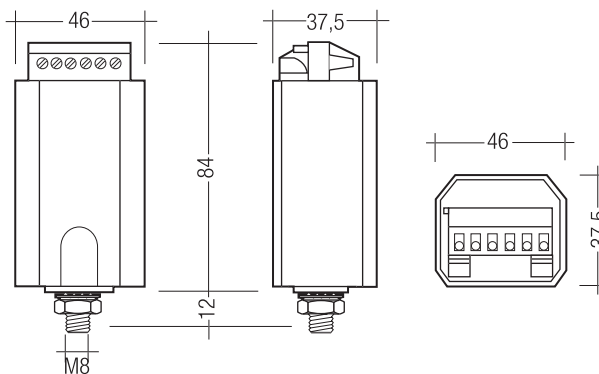
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request
- The "Energy saving in street lighting" brochure is available at [www.tridonic.com](http://www.tridonic.com) or on request

**Technical data**

Max. casing temperature	80 °C
Min. ambient temperature	-30 °C
Screw terminal	0.75 – 2.5 mm <sup>2</sup>



Wiring diagrams and installation examples, page 257



Igniters and power switches

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
ZRM U6L	87500039	40 pieces	800 pieces	0.185 kg
ZRM U6L/T	87500040	40 pieces	800 pieces	0.185 kg

**Specific technical data**

Type	Article number	Permitted input voltage	Mains frequency	Temperature rise	Rated contact voltage	Rated contact current	Switchover delay
ZRM U6L	87500039	198 – 264 V	50 / 60 Hz	8 K	250 V	6 A / cos φ = 0.5; 16 A / cos φ = 1.0	–
ZRM U6L/T	87500040	198 – 264 V	50 / 60 Hz	9 K	250 V	6 A / cos φ = 0.5; 16 A / cos φ = 1.0	330 s



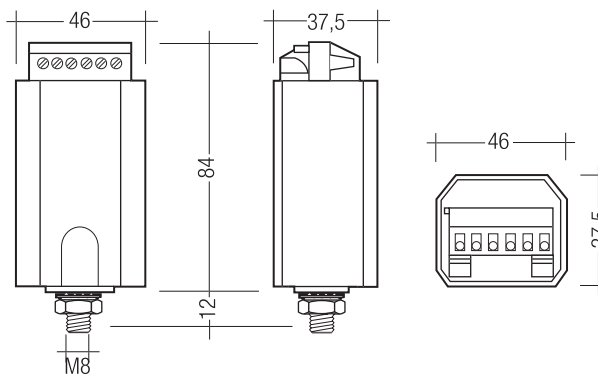
## ZRM U6M

Energy savings in street lighting

### Product description

The ZRM U6M digital power changeover switch automatically reduces brightness during the night. Changeover is automatically handled by a digital chip. The changeover times can be set centrally via the normal power supply. ZRM U6M therefore operates entirely independently, is maintenance-free and does not require a control line.

- It can be used in any lighting system without an additional control line
  - For changing impedance with tapped chokes or supplementary impedances
  - Digital switchover relay with temporary bridging for interruption-free power reduction
  - Integrated delay circuit for gentle lamp starting at the 100 % output
  - ZRM U6M A001 for magnetic chokes with integrated temporary bridging
  - ZRM U6M A003 for electronic ballasts with control input
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request
- The "Energy saving in street lighting" brochure is available at [www.tridonic.com](http://www.tridonic.com) or on request



### Technical data

Max. casing temperature	80 °C
Min. ambient temperature	-30 °C
Screw terminal	0.75 – 2.5 mm <sup>2</sup>

### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
ZRM U6M A001	87500044	40 pieces	800 pieces	0.23 kg
ZRM U6M A003	87500045	40 pieces	800 pieces	0.23 kg



Wiring diagrams and installation examples, page 257

### Specific technical data

Type	Article number	Permitted input voltage	Mains frequency	Temperature rise	Rated contact voltage	Rated contact current	Switchover delay
ZRM U6M A001	87500044	198 – 264 V	50 / 60 Hz	10 K	250 V	6 A / cos $\phi$ = 0.5; 16 A / cos $\phi$ = 1.0	600 s
ZRM U6M A003	87500045	198 – 264 V	50 / 60 Hz	5 K	250 V	6 A / cos $\phi$ = 0.5; 16 A / cos $\phi$ = 1.0	600 s



## LRM 500 S

Ignition time bridging

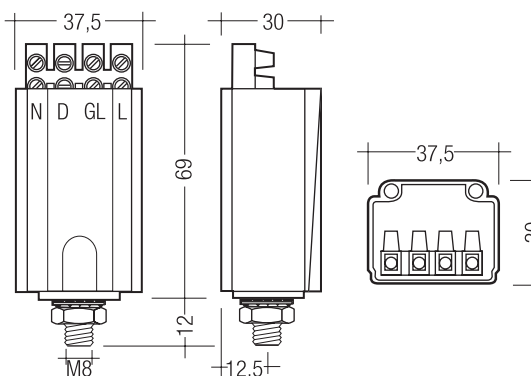
### Product description

Since high-intensity lamps require a certain starting time to reach their full output an additional lamp can be used to bridge this starting phase. The additional lamp provides sufficient light until the high-intensity lamp has completed the starting phase. The additional lamp is controlled by LRM 500 S. As soon as the high-intensity lamp produces enough light (about 90 % of full output) the additional lamp is switched-off.

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

### Technical data

Max. casing temperature	90 °C
Min. ambient temperature	-30 °C
Screw terminal	0.75 – 2.5 mm <sup>2</sup>



Wiring diagrams and installation examples, page 257

### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
LRM 500 S	87500041	50 pieces	1,400 pieces	0.15 kg

### Specific technical data

Type	Article number	Permitted input voltage	Mains frequency	Temperature rise	Max. HID lamp wattage	Auxiliary lamp wattage	Max. choke voltage
LRM 500 S	87500041	198 – 264 V	50 / 60 Hz	12 K	1,000 W	5 – 500 W	800 V

RoHS

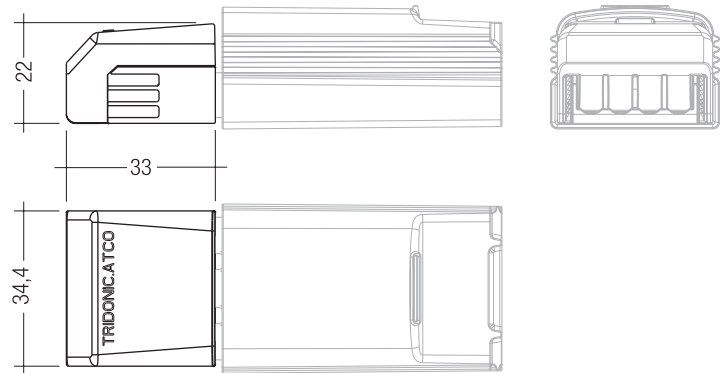
**ZRM ES/C terminal cover**  
Mounting components

**Product description**

- Contact protection
- No tools required for installation
- Can be mounted even after the cables have been fitted
- Suitable for:  
ZRM 2-ES/C; ZRM 2 ES/CT  
ZRM 2.5-ES/C; ZRM 2.5-ES/CT  
ZRM 4.5-ES/C; ZRM 4.5-ES/CT  
ZRM 6-ES/C; ZRM 6-ES/CT; ZRM 6-ES/C 400; ZRM 6-ES/C 3.5 kV  
ZRM 12-ES/C; ZRM 12-ES/CT; ZRM 12-ES/C 400

**Technical data**

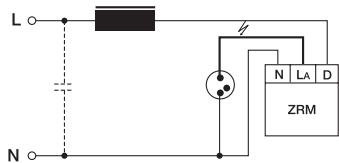
Dimensions L x W x H 33 x 34,4 x 22 mm



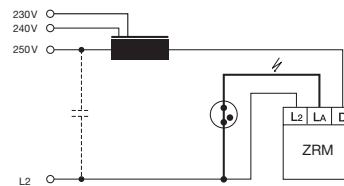
**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
ZRM ES/C Terminal cover	24139100	350 pieces	2,800 pieces	0.01 kg

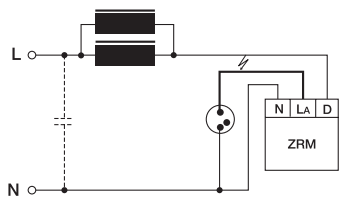
Single-voltage circuit with superimposed-pulse ignitor for sodium vapour lamps and metal halide lamps



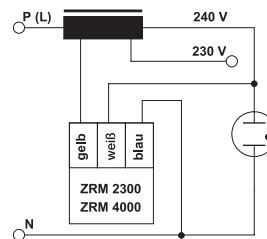
Multi-voltage circuit with superimposed-pulse ignitor for sodium vapour lamps and metal halide lamps



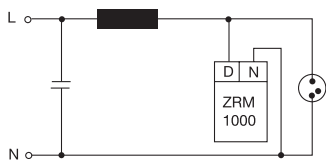
Single-voltage circuit for ECIS 150 1/2 with superimposed-pulse ignitor for sodium vapour lamps and metal halide lamps



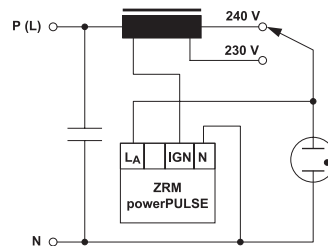
Multi-voltage circuit with pulse ignitors ZRM 2300 and ZRM 4000



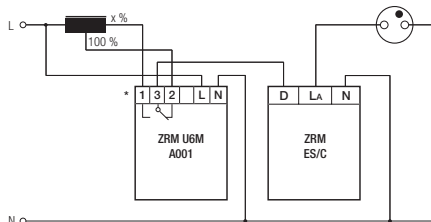
Parallel pulse circuit for metal halide lamps up to 1 kV<sub>p</sub> ignition voltage



Multi-voltage circuit with pulse ignitors ZRM 4000 powerPULSE for sodium vapour lamps and metal halide lamps

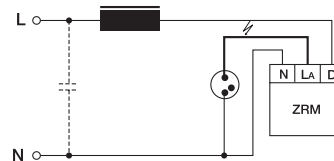


Power changeover for sodium vapour lamps by means of tapped choke and ZRM U6M

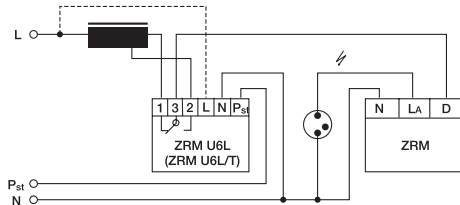


\* standby operation: pin 1 and 2 are connected  
100 % operation: pin 2 and 3 are connected

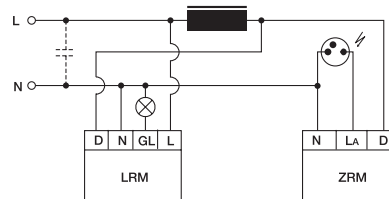
Upgrading from mercury vapour lamps to sodium vapour lamps by means of supplementary impedance



Power changeover for sodium vapour lamps by means of tapped choke and ZRM U6L



Ignition time bridging of metal halide lamps by means of LRM 500 S







## Overview

Product / function matrix Page 260

## Product information

Electronic transformers for low-voltage halogen lamps Page 262

## Dimming via leading-edge and trailing-edge phase dimmers

TE speedy Page 263

TE VIPER Page 264

TE BASIC Page 265

TE 0105 Page 266

## Digital dimming

TE one4all sc Page 267

TE one4all cc Page 269

TE-DC 2 one4all Page 270

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Product / function matrix



Benefits	Product characteristics	TE speedy	TE VIPER
<b>High functionality</b>	Wattage range	20 – 105 VA	20 – 105 VA
	SELV	•	•
	Mains voltage	230 – 240 V 50/60 Hz	230 – 240 V 50/60 Hz
	For use in emergency lighting systems (EN 50172)		
	Soft start	•	•
	Constant output voltage		
<b>High level of safety</b>	Intelligent Voltage Guard for constantly checking the mains voltage		
	Short-circuit shutdown feature with automatic restart	•	•
	Overtemperature protection	•	•
	Overload protection	•	•
	Protection class	II	II
	Type of protection	IP20	IP20
<b>Efficient dimming</b>	Leading-edge and trailing-edge phase dimmers	•	•
	switchDIM		
	corridorFUNCTION		
	Digital interface DSI / DALI		
<b>High degree of flexibility</b>	Built-in version		
	Surface-mounted version	•	•
	Double-sided terminals		•
	Single-sided terminals	•	
<b>High quality</b>	Approval marks		
	Guarantee	5 years	3 years



TE BASIC	TE 0105	TE one4all sc	TE one4all cc	TE-DC 2 one4all
20 – 60 VA	35 – 105 VA	20 – 150 VA	20 – 105 VA	100 – 300 VA
•	•	•	•	•
220 – 240 V 50/60 Hz	230 – 240 V 0/50/60 Hz	230 – 240 V 0/50/60 Hz	230 – 240 V 0/50/60 Hz	230 – 240 V 0/50/60 Hz
		•	•	•
	•	•	•	•
	•	•	•	•
•	•	•	•	•
	•	•	•	•
•	•	•	•	•
II	II	II	II	II
IP20	IP20	IP20	IP20	IP20
•	•			
		•	•	•
		•	•	•
		•	•	•
•				
	•	•	•	•
	•	•	•	•
•				
3 years	5 years	5 years	5 years	5 years



## Electronic transformers for low-voltage halogen lamps



TE speedy

Tridonic electronic transformers are characterised above all by excellent economic efficiency, exceptional lighting comfort and high reliability. This diverse product range offers the best way of integrating low-voltage halogen lamps in lighting solutions easily. Task-specific control ranges from digital using a DALI or DSI interface, leading-edge and trailing-edge phase dimmers and momentary-action switch operation using switchDIM.

### Optimal lamp operation

Electronic transformers operate lamps with high-frequency voltages in the range from 30 to 40 kHz. The innovative electronic system with switch-on current limiting, soft-starting and a constant non-load dependent output voltage over the entire output range ensures optimum lamp operation and hence long lamp service life.

In the case of the digital transformers, a unique circuit concept stabilises the output voltage regardless of the input voltage. The ASIC is the core of the patented circuitry and ensures optimised, low-loss control of the power circuitry and all protective and monitoring functions in the event of overloads, overtemperature and short circuits.

Thanks to high-quality components, intelligent circuit design and extensive inspection and test programs at rated operating conditions, Tridonic TE transformers achieve an average life of 50,000 hours with a failure probability of less than 10 %, i.e. an average failure rate of 0.2 % per 1,000 hours of operation.

These features ensure that lighting installations with low-voltage halogen lamps achieve a high level of economic efficiency.

### Constantly high quality

The consistently high quality and reliability of the Tridonic TE transformers is guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture ensures constant reproducible quality. All transformers are subjected to 100 % final testing and safety testing.

### Standards and approval marks

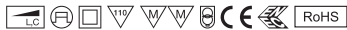
Electronic transformers from Tridonic are ENEC certified, carry the CE mark and meet all the European as well as international standards relating to safety, operation and electro-magnetic compatibility (EMC).

### Technical information

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Data sheets"

### Personal enquiries

A form for personal enquiries is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Contact", submenu "Contact form"

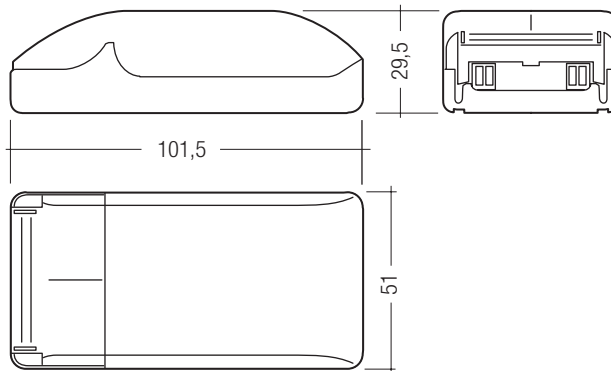


### TE speedy

Lamp power 20 – 105 VA

#### Product description

- Compact dimensions
  - Short-circuit shutdown feature with automatic restart
  - Overtemperature and overload protection with power regulation
  - Large connection compartment
  - Double assignment of the terminal possible
  - Cage clamp terminals for rigid and flexible wires
  - Double terminals on the secondary side
  - Rapid installation of cable clamp and terminal cover, no tool required
  - Casing: polycarbonate, dark blue/white
  - Not suitable for operation with MR16 LED bulbs
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Mains voltage range	230 – 240 V
Mains frequency	50 / 60 Hz
Dimming	Leading-edge and trailing-edge phase control
Soft-start	< 1 s
$\lambda$	> 0.95
Efficiency	> 93 %
Max. cable length secondary	2 m
Protection class	II
Type of protection	IP20

#### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TE-0050 C101	24034855	20 pieces	1,000 pieces	0.105 kg
TE-0070 C101	24034868	20 pieces	1,000 pieces	0.108 kg
TE-0105 C101	24034874	20 pieces	1,000 pieces	0.120 kg



Product / function matrix, page 260

Wiring diagrams and installation examples, page 271

#### Specific technical data

Type	Article number	Dimensions L x W x H	Lamp power	Current at 50 Hz 230 V	Secondary voltage 230 V	Secondary voltage 240 V	Operating frequency	Ambient temperature $t_a$	tc point max.	Secondary terminal
TE-0050 C101	24034855	101.5 x 51 x 29.5 mm	20 – 50 VA	0.215 A	11.5 V	11.7 V	60 kHz	-20 ... +50 °C	85 °C	4-pin
TE-0070 C101	24034868	101.5 x 51 x 29.5 mm	20 – 70 VA	0.300 A	11.5 V	11.7 V	55 kHz	-20 ... +50 °C	85 °C	4-pin
TE-0105 C101	24034874	101.5 x 51 x 29.5 mm	35 – 105 VA	0.450 A	11.5 V	11.7 V	40 kHz	-20 ... +45 °C	85 °C	4-pin



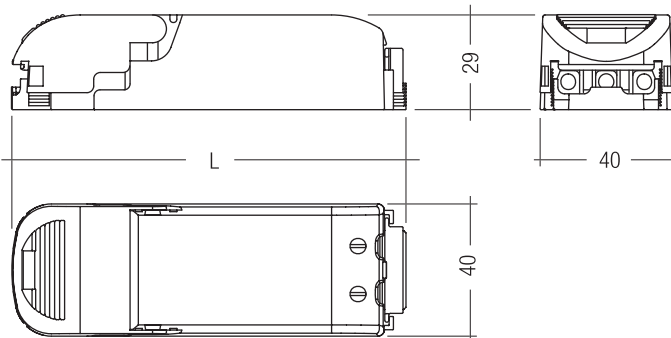
## TE VIPER

Lamp power 20 – 105 VA

### Product description

- Short-circuit shutdown feature with automatic restart
- Compact dimensions
- Overtemperature and overload protection
- Large connection compartment
- With soft start (< 1 s)
- Double assignment of the terminal possible
- Screw terminals for rigid and flexible wires
- Ground terminal for through-wiring
- Rapid installation of cable clamp and terminal cover, no tool required
- Not suitable for operation with MR16 LED bulbs

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



### Technical data

Mains voltage range	230 – 240 V
Mains frequency	50 / 60 Hz
Dimming	Leading-edge and trailing-edge phase control
Soft-start	< 1 s
$\lambda$	> 0.95
Efficiency	> 93 %
Max. cable length secondary	2 m
Protection class	II
Type of protection	IP20

### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TE-0060 VIPER 60VA	22176072	20 pieces	560 pieces	0.100 kg
TE-0105 VIPER 105VA	22176074	20 pieces	440 pieces	0.126 kg



Product / function matrix, page 260

Wiring diagrams and installation examples, page 271

### Specific technical data

Type	Article number	Dimensions L x W x H	Lamp power	Current at 50 Hz 230 V	Secondary voltage 230 V	Secondary voltage 240 V	Operating frequency	Ambient temperature $t_a$	$t_c$ point max.	Secondary terminal	Max. torque terminal block	Terminal diameter on each pole	Stripping length (prim./sec.)
TE-0060 VIPER 60VA	22176072	120 x 40 x 29 mm	20 – 60 VA	0.26 A	11.3 V	11.6 V	55 kHz	0 ... +50 °C	70 °C	2-pin	0.4 Nm	max. 2.5 mm <sup>2</sup> min. 1.5 mm <sup>2</sup>	8 mm
TE-0105 VIPER 105VA	22176074	141 x 40 x 29 mm	35 – 105 VA	0.45 A	11.0 V	11.5 V	45 kHz	0 ... +45 °C	85 °C	4-pin	0.4 Nm	max. 2.5 mm <sup>2</sup> min. 1.5 mm <sup>2</sup>	8 mm



**TE BASIC**  
Lamp power 20 – 60 VA

**Product description**

- Nominal life of 30,000 h (at ta max. 50 °C with a failure rate  $\leq 0.2\%$  per 1,000 h)
- Compact dimensions
- Screw terminals for rigid and flexible wires
- Inbuilt transformer
- Able to drive any low-voltage lamp on the market up to max. 60 W
- Coloured single packaging (optional)
- Short-circuit shutdown feature with automatic restart
- Overload protection

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

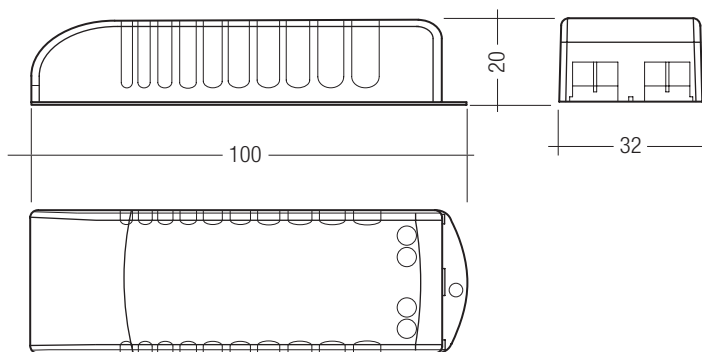
**Technical data**

Mains voltage range	220 – 240 V
Mains frequency	50 / 60 Hz
Dimming	Leading-edge and trailing-edge phase control
Soft-start	< 1 s
$\lambda$	> 0.95
Efficiency	> 92 %
Max. cable length secondary	2 m
Protection class	II
Type of protection	IP20



Fig. 1

Fig. 2



**Ordering data**

Type	Article number	Figure	Packaging, carton	Packaging, pallet	Weight per pcs.
TE-0060 BASIC 101 fly lead	22176494	1	400 pieces	3,600 pieces	0.055 kg
TE-0060 BASIC 111 screw terminal	22176495	2	400 pieces	2,000 pieces	0.053 kg



Product / function matrix, page 260

Wiring diagrams and installation examples, page 271

**Specific technical data**

Type	Article number	Dimensions L x W x H	Lamp power	Current at 50 Hz 230 V	Secondary voltage 230 V	Secondary voltage 240 V	Operating frequency	Ambient temperature ta	tc point max.	Max. torque primary/secondary terminal block	Secondary connection	Primary connection
TE-0060 BASIC 101	22176494	100 x 32 x 20 mm	20 – 60 VA	0.28 A	11.6 V	12 V	45 kHz	0 ... +50 °C	90 °C	–	2 leads AWG 18, length: 140 mm	2 leads AWG 20, length: 60 mm
TE-0060 BASIC 111	22176495	100 x 32 x 20 mm	20 – 60 VA	0.28 A	11.6 V	12 V	45 kHz	0 ... +50 °C	90 °C	0.5 Nm / M2.6	Max. cross section of 1 x 1.5 mm <sup>2</sup> stranded/solid wire	Max. cross section of 1 x 1.5 mm <sup>2</sup> stranded/solid wire

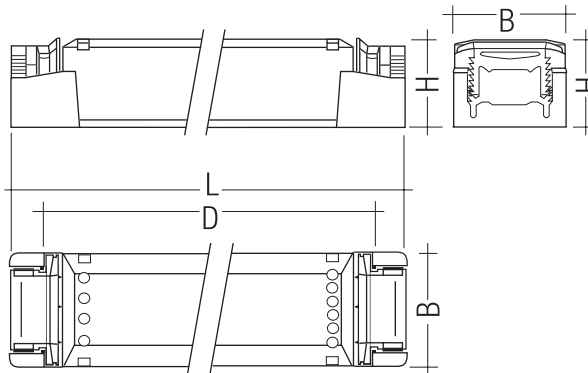


**TE 0105**

Lamp power 35 – 105 VA

**Product description**

- Independent device with integrated cable clamp and terminal cover
  - Constant output voltage
  - Short-circuit shutdown feature with automatic restart
  - 6 or 8-pole terminal on secondary side
  - Primary-side through-wiring
  - Practical individual packaging with assembly instructions
  - Rapid installation of the cable clamp, no tools required
  - Not suitable for operation with MR16 LED bulbs
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



**Technical data**

Mains voltage range	230 – 240 V
Mains frequency	0 / 50 / 60 Hz
Dimming	Leading-edge and trailing-edge phase control
Soft-start	< 1 s
$\lambda$	> 0.95
Efficiency	> 93 %
Max. cable length secondary	2 m
Protection class	II
Type of protection	IP20



Product / function matrix, page 260

Wiring diagrams and installation examples, page 271

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TE-0105 C201	89899857	20 pieces	1,000 pieces	0.15 kg

**Specific technical data**

Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Current at 50 Hz 230 V	Secondary voltage 230 V	Secondary voltage 240 V	Operating frequency	Ambient temperature $t_a$	tc point max.	Secondary terminal
TE-0105 C201	89899857	167 x 42 x 31 mm	143 – 148 mm	35 – 105 VA	0.45 A	11.5 V	11.7 V	40 kHz	-25 ... +45 °C	85 °C	6-pin screw terminal

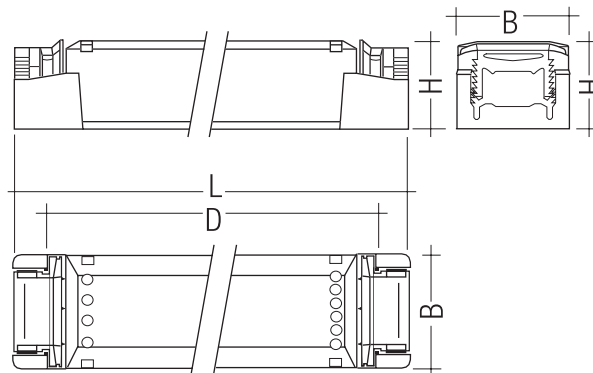




**TE 0105 one4all sc**  
Lamp power 20 – 105 VA

**Product description**

- Independent device with integrated cable clamp and terminal cover
  - Dimming range 1 to 100 %
  - For emergency lighting systems as per EN 50172
  - Short-circuit shutdown feature with automatic restart
  - With soft start
  - Noise-free precise control via one4all-interface  
DALI, DSI, switchDIM or corridorFUNCTION
  - Fault reporting and programmable operating parameters in DALI and DSI mode
  - Intelligent Temperature Guard (overtemperature protection)
  - Rapid installation of cable clamp and terminal cover, no tool required
  - 6-pole terminal on secondary side
  - Cage-type screw terminal
  - Practical individual packaging with assembly instructions
  - Not suitable for operation with MR16 LED bulbs
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	230 – 240 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Dimming	DSI, DALI, switchDIM – single momentary-action switch
Soft-start	yes
$\lambda$	> 0.95
Efficiency	> 95 %
Stand-by power	< 0.5 W
Max. cable length secondary	2 m
Protection class	II
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TE-0105 one4all sc	86459198	20 pieces	800 pieces	0.18 kg



Product / function matrix, page 260

Wiring diagrams and installation examples, page 271

**Specific technical data**

Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	DC lamp output	Current at 50 Hz 230 V	Secondary voltage <sup>Ⓢ</sup>	Operating frequency	Ambient temperature ta	tc point max.	Secondary terminal
TE-0105 one4all sc	86459198	167 x 42 x 31 mm	143 – 148 mm	20 – 105 VA	70 %	0.43 A	11.5 V	33 kHz	-25 ... +55 °C	90 °C	6-pin

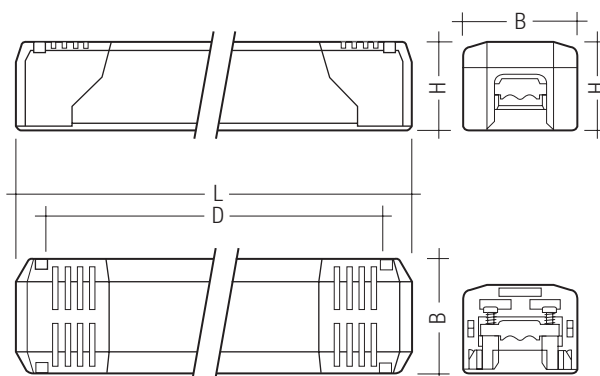
<sup>Ⓢ</sup> Constant output voltage.



**TE 0150 one4all sc**  
Lamp power 20 – 150 VA

**Product description**

- Independent device with integrated cable clamp and terminal cover
  - Dimming range 1 to 100 %
  - For emergency lighting systems as per EN 50172
  - Short-circuit shutdown feature with automatic restart
  - With soft start
  - Noise-free precise control via one4all-interface  
DALI, DSI, switchDIM or corridorFUNCTION
  - Fault reporting and programmable operating parameters in DALI and DSI mode
  - Overtemperature and overload protection by reducing power and automatic restart
  - Load range 50 – 150 VA
  - Primary-side through-wiring
  - 8-pole terminal on secondary side
  - Practical individual packaging with assembly instructions
  - Not suitable for operation with MR16 LED bulbs
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	230 – 240 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Dimming	DSI, DALI, switchDIM – single momentary-action switch
Soft-start	yes
$\lambda$	> 0.95
Efficiency	> 95 %
Stand-by power	< 1.2 W
Max. cable length secondary	2 m
Protection class	II
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TE-0150 one4all sc	86457874	10 pieces	600 pieces	0.29 kg



Product / function matrix, page 260

Wiring diagrams and installation examples, page 271

**Specific technical data**

Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	DC lamp output	Current at 50 Hz 230 V	Secondary voltage <sup>①</sup>	Operating frequency	Ambient temperature t <sub>a</sub>	t <sub>c</sub> point max.	Secondary terminal
TE-0150 one4all sc	86457874	207 x 46 x 40 mm	170 – 174 mm	50 – 150 VA	70 %	0.61 A	11.8 V	33 kHz	-25 ... +50 °C	90 °C	8-pin spring terminal

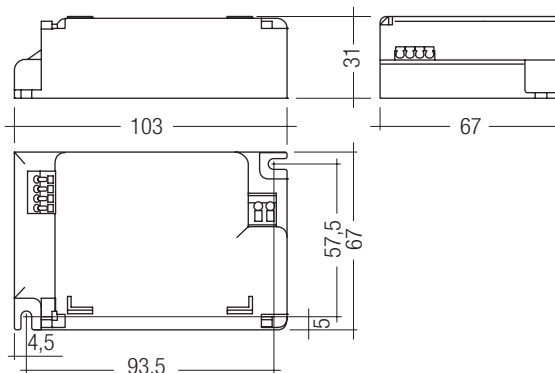
<sup>①</sup> Constant output voltage.



**TE 0105 one4all cc**  
Lamp power 20 – 105 VA

**Product description**

- Dimming range 1 to 100 %
  - For emergency lighting systems as per EN 50172
  - Compact design for luminaire installation
  - Short-circuit shutdown feature with automatic restart
  - With soft start
  - Noise-free precise control via one4all-interface  
DALI, DSI, switchDIM or corridorFUNCTION
  - Fault reporting and programmable operating parameters in DALI and DSI mode
  - Overtemperature and overload protection by reducing power and automatic restart
  - 2-pole output terminal
  - Not suitable for operation with MR16 LED bulbs
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	230 – 240 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Dimming	DSI, DALI, switchDIM – single momentary-action switch
Soft-start	yes
$\lambda$	> 0.95
Efficiency	> 94 %
Max. cable length secondary	2 m
Protection class	II
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TE-0105 one4all cc	86456435	15 pieces	750 pieces	0.15 kg



Product / function matrix, page 260

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**Specific technical data**

Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	DC lamp output	Current at 50 Hz 230 V	Secondary voltage <sup>Ⓢ</sup>	Operating frequency	Ambient temperature $t_a$	tc point max.	Secondary terminal
TE-0105 one4all cc	86456435	103 x 67 x 31 mm	91.5 – 95.5 mm	20 – 105 VA	70 %	0.4 A	11.8 V	33 kHz	-25 ... +60 °C	90 °C	2-pin

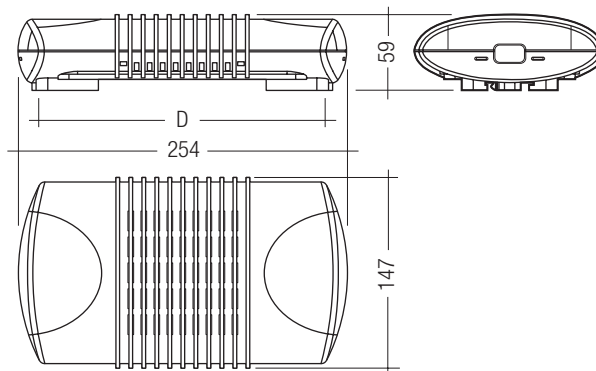
<sup>Ⓢ</sup> Constant output voltage.



**TE-DC 2 D101 one4all**  
Lamp power 100 – 300 VA

**Product description**

- Independent device with integrated cable clamp and terminal cover
  - Dimming range 1 to 100 %
  - For emergency lighting systems as per EN 50172
  - Constant output voltage
  - Short-circuit shutdown feature with automatic restart
  - With soft start
  - Noise-free precise control via one4all-interface DALI, DSI, switchDIM
  - Fault reporting and programmable operating parameters in DALI and DSI mode
  - Overtemperature and overload protection by reducing power and automatic restart
  - Quiet operation even when dimmed
  - Suitable for cable lengths up to 20 m
  - Integrated intelligent current monitor
  - Double assignment of the terminal possible
  - Practical individual packaging with assembly instructions
  - Rapid installation of the cable clamp, no tools required
  - Not suitable for operation with MR16 LED bulbs
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Mains voltage range	230 – 240 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Dimming	DSI, DALI, switchDIM – single momentary-action switch
Soft-start	yes
$\lambda$	> 0.99
Efficiency	> 93 %
Protection class	II
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TE-DC 2 0300 D101 white	86458498	10 pieces	120 pieces	0.8 kg
TE-DC 2 0300 D101 grey	86458469	10 pieces	120 pieces	0.8 kg



Product / function matrix, page 260

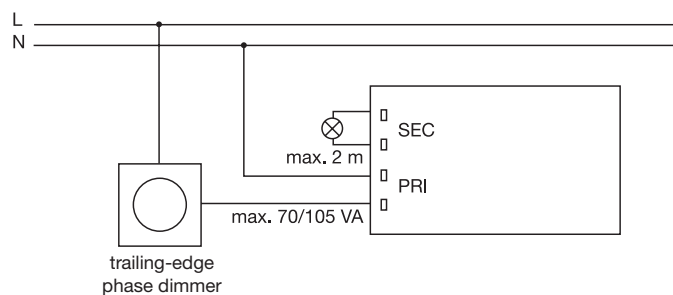
Wiring diagrams and installation examples, page 271

**Specific technical data**

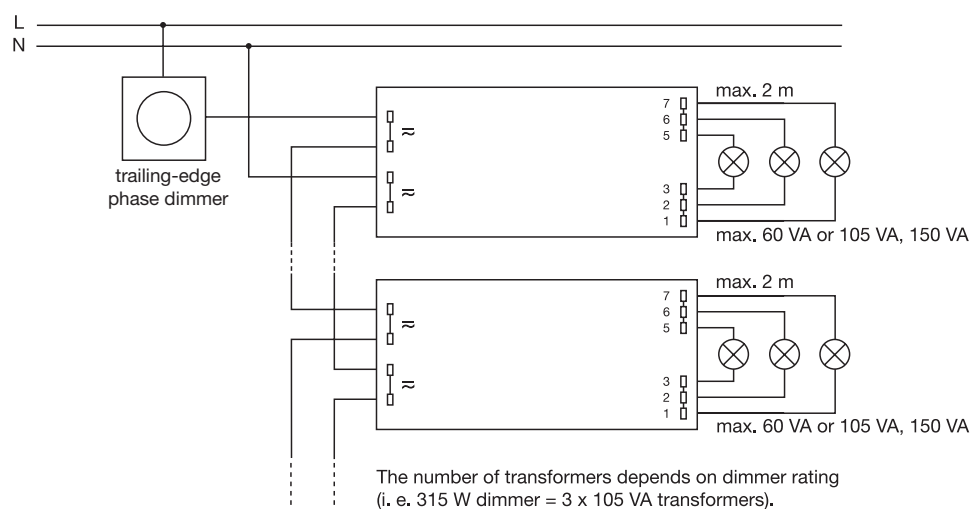
Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	DC lamp output	Current at 50 Hz 230 V	Secondary voltage <sup>®</sup>	Ambient temperature $t_a$	tc point max.	Secondary terminal
TE-DC 2 0300 D101	86458498	254 x 147 x 59 mm	218 – 226 mm	100 – 300 VA	70 %	1.45 A	11.9 V	-20 ... +35 °C	100 °C	2-pin, screw terminal
TE-DC 2 0300 D101	86458469	254 x 147 x 59 mm	218 – 226 mm	100 – 300 VA	70 %	1.45 A	11.9 V	-20 ... +35 °C	100 °C	2-pin, screw terminal

<sup>®</sup> Constant output voltage.

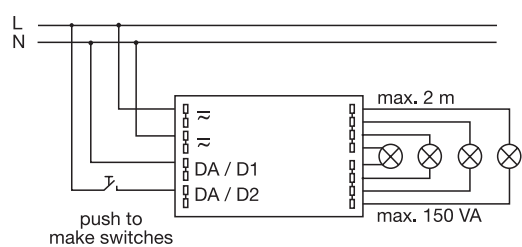
**TE speedy / TE VIPER / TE BASIC:** leading-edge and trailing-edge phase dimmer



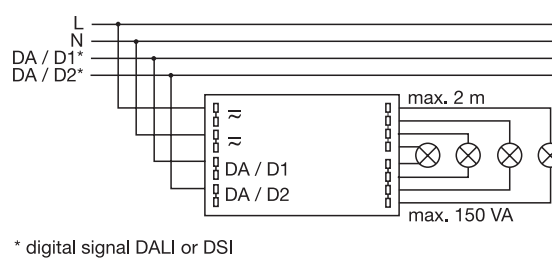
**TE 0105:** leading-edge and trailing-edge phase dimmer



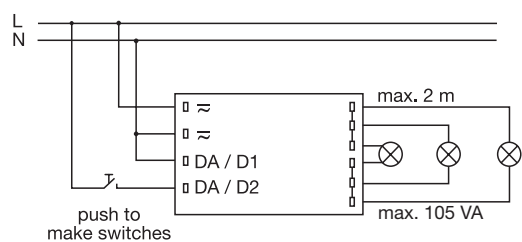
**TE one4all sc:** wiring diagram switchDIM



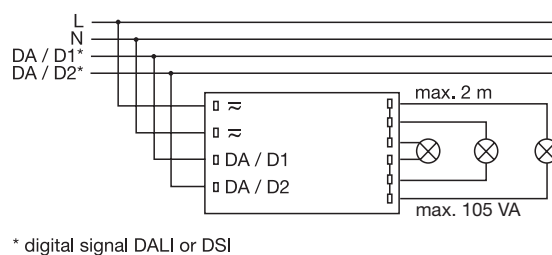
**TE one4all sc:** wiring diagram DALI/DSI



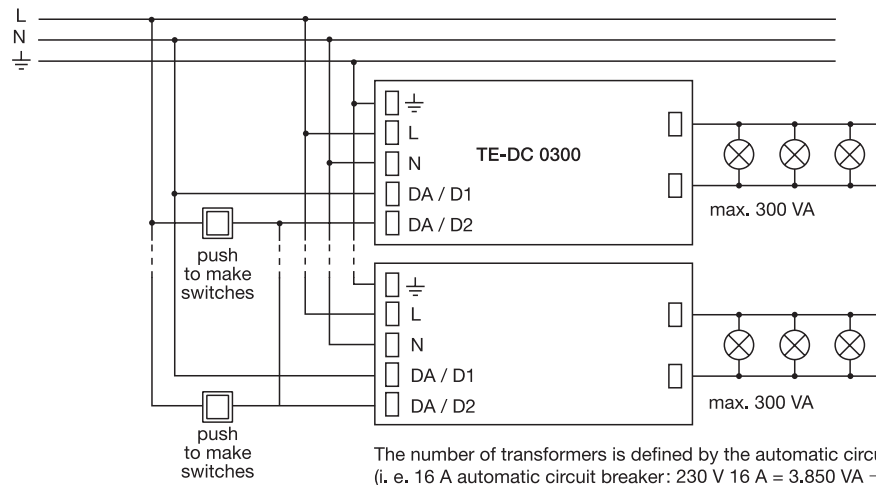
**TE one4all cc:** wiring diagram switchDIM



**TE one4all cc:** wiring diagram DALI/DSI

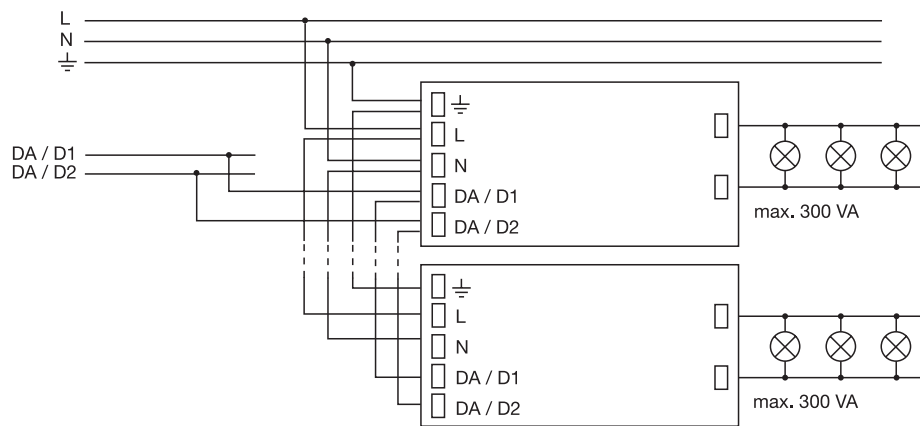


TE-DC 2: wiring diagram switchDIM



The number of transformers is defined by the automatic circuit breaker.  
(i. e. 16 A automatic circuit breaker:  $230\text{ V } 16\text{ A} = 3.850\text{ VA} \rightarrow \text{max. } 11\text{ pcs. } 300\text{ VA transformers}$ )

TE-DC 2: wiring diagram DALI/DSI



The number of transformers is defined by the automatic circuit breaker.  
(i. e. 16 A automatic circuit breaker which allows max. 11 pcs. 300 VA transformers)







## Overview

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## Built-in applications

KTR 50 – 105 VA 230/11.5 V	Page 280
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TMDC 20 – 105 VA 230/11.5 V	Page 282
TMBB 20 – 105 VA 230/11.5 V	Page 283
TMBC 150 – 300 VA 230/11.5 V	Page 284

## Remote applications

TMDD 50 – 105 VA 230/11.5 V	Page 285
OMT 150 – 300 VA 230/240/12 V	Page 286

<b>Wiring diagrams and installation examples</b>	<b>Page 287</b>
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Standards – Product / function matrix

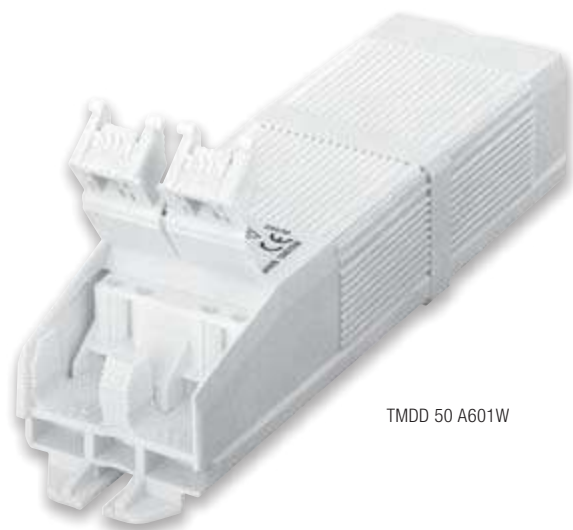
			EN 61558	Screw terminal 0.75 – 2.5 mm <sup>2</sup>	Spring terminal 0.5 – 1.5 mm <sup>2</sup>	Insulation class	Current-sensitive thermal controller	Thermal protection	Thermal protection and fuse	SELV	Wattage range
Installation	Type	Page									
Built-in applications	KTR	Page 280	●	●		B				●	50 – 105 W
	TMDC...K <sup>①</sup>	Page 281	●	●		H				●	50 – 105 W
	TMDC...W <sup>①</sup>	Page 282	●	●		H	●			●	20 – 105 W
	TMBB	Page 283	●		●	H	●			●	20 – 105 W
	TMBC...W <sup>①</sup>	Page 284	●		● <sup>②</sup>	H	●			●	150 – 300 W
	TMBC...U <sup>①</sup>	Page 284	●		● <sup>②</sup>	H		●		●	150 – 300 W
Remote applications	TMDD	Page 285	●			B	●			●	50 – 105 W
	OMT	Page 286	●		● <sup>②</sup>	F			●	●	150 – 300 W

- ① W = Current-sensitive thermal controller  
 TP, U = Thermal protection  
 K = No current-sensitive thermal controller or thermal protection  
 ② Secondary side: screw terminal

## Magnetic transformers for low-voltage halogen lamps

In principle, operation of low-voltage halogen lamps, which are universally popular for accent lighting, require a transformer which adapts the mains voltage to a 12 V operating voltage. There is a choice between magnetic and electronic transformers. The latter are divided up into phase-dimmable and digitally dimmable TE one4all models.

All transformers also ensure that the protective measures required by relevant standards are met, for instance in the event of a short circuit or voltage interruption.



TMDD 50 A601W

Magnetic transformers are a rugged, extremely affordable solution offering long service life together with excellent thermal endurance.

Tridonic's diversified range of units for integration in luminaires and surface-mounted applications covers all relevant uses. The transformers guarantee operation of lamps in accordance with specifications, thereby enabling lamps to achieve their maximum luminous flux and service life.

Essentially, all Tridonic magnetic transformers are characterised by minimal power consumption, compact winding, optimised dimensions and high-quality materials. They are continuously controllable using phase-control dimmers for inductive loads.

### Designed for long service life

Thanks to their high-quality insulating material, coil form and the quality of the copper wire used, KTR, TMDC, TMB and TMC type transformers for integration in luminaires and TMDD and OMT types for surface-mounted applications achieve a maximum service life of approximately 100,000 hours of operation, i.e. roughly ten years of continuous operation with a winding temperature of 130 °C ( $t_w = 130\text{ °C}$ ). The winding temperature is calculated from the ambient temperature and the temperature increase due to intrinsic consumption. An upward or downward change in temperature of 10 °C causes doubling or halving of the life of the unit respectively.

The transformers can be protected on the line side either by a slow fuse or by a built-in current-sensitive thermal cutout appropriate to the transformer type. In addition there is protection on the secondary side against overloads and short-circuits trips if the lamp is faulty.

### Constantly high quality

The consistently high quality and reliability of the Tridonic magnetic transformers is guaranteed by the use of high-grade materials together with manufacturing processes certified to ISO 9001. Fully automatic manufacture ensures constant reproducible quality. All transformers are subjected to 100 % final testing and safety testing.

### Standards and approval marks

Magnetic transformers from Tridonic are ENEC certified, carry the CE mark and meet the European standard EN 61558 (IEC 61558) relating to safety, operation and electro-magnetic compatibility (EMC).

### Specialist for integrated applications

KTR magnetic transformers are characterised by especially compact dimensions (28.6 x 41.5 mm) and an excellent price/performance ratio. Power ratings range from 50 to 105 VA.

Because of their dimensions, TMDC transformers are suitable for all applications where a device with a small cross-sectional area is needed, e.g. in tubetrack systems. This model is available with power ratings from 20 to 105 VA.

TMB transformers are compactly designed units of reduced length. The device has a cross-sectional area of 65 x 47 mm. Thanks to its high efficiency, the TMB model, which is available in versions from 20 to 300 VA, is also suitable for use at relatively high ambient temperatures.

### Designed for surface-mounted applications

TMDD magnetic transformers are available as a Lovotec version and as a TMD enclosed version which are also suitable for integration or surface-mounting on furniture having unknown flammability characteristics. Thanks to their small cross-sectional area, these units are especially suitable for use in suspended ceilings.

OMT transformers are used when several lamps are connected, e.g. in the case of cord suspension or track systems. Power ratings range from 150 to 300 VA.



TMDC 105

### Technical information

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Data sheets"

### Personal enquiries

A form for personal enquiries is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu "Contact", submenu "Contact form"



**KTR 50 – 105 VA 230/11.5 V**  
Lamp power 50 – 105 VA

**Product description**

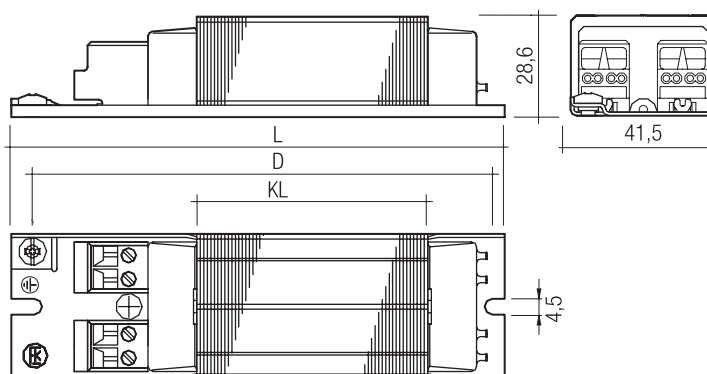
- Small transformer to EN 61558-2-1
  - Single insulation on the primary side
  - Screw terminals, nickel-plated,  
0.75 – 2.5 mm<sup>2</sup> rigid and stranded wires
  - Terminal split (primary/secondary)
  - Insulation class B
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



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**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
KTR 50 230 V	86438472	20 pieces	960 pieces	0.75 kg
KTR 105 230 V	86438480	10 pieces	600 pieces	1.50 kg

**Specific technical data**

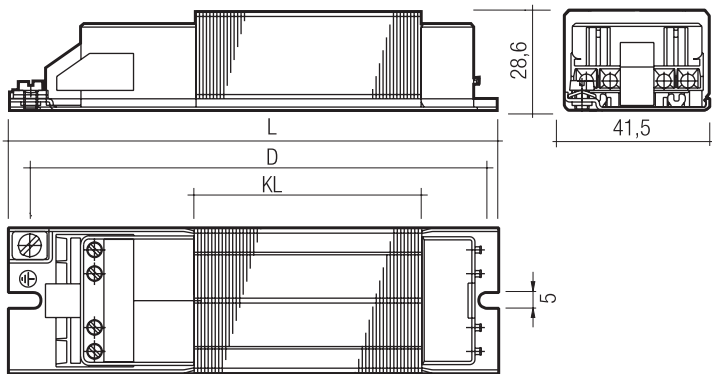
Type	Article number	Lamp power	Core length KL	Length L	Hole spacing D	UL / UO	Losses	Primary current	Ambient temperature t <sub>a</sub>
KTR 50 230 V	86438472	30 – 50 VA	78 mm	153 mm	143 mm	83 %	12.6 W	270 mA	40 °C
KTR 105 230 V	86438480	50 – 105 VA	165 mm	240 mm	230 mm	87 %	20.3 W	535 mA	40 °C



**TMDC 50 – 105 VA 230/11.5 V**  
Lamp power 50 – 105 VA

**Product description**

- Screw terminals, nickel-plated,  
0.75 – 2.5 mm<sup>2</sup> rigid and stranded wires
  - Insulation class H
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



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**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TMDC 50 B001K 230 V	86451534	20 pieces	960 pieces	0.75 kg
TMDC 105 B001K 230 V	86451540	10 pieces	600 pieces	1.50 kg

**Specific technical data**

Type	Article number	Lamp power	Core length KL	Length L	Hole spacing D	UL / UO	Losses	Primary current	Ambient temperature t <sub>a</sub>
TMDC 50 B001K 230 V	86451534	30 – 50 VA	78 mm	153 mm	143 mm	86 %	12 W	280 mA	80 °C
TMDC 105 B001K 230 V	86451540	50 – 105 VA	165 mm	240 mm	230 mm	87 %	25 W	495 mA	80 °C



**TMDC 20 – 105 VA 230/11.5 V**  
Lamp power 20 – 105 VA

**Product description**

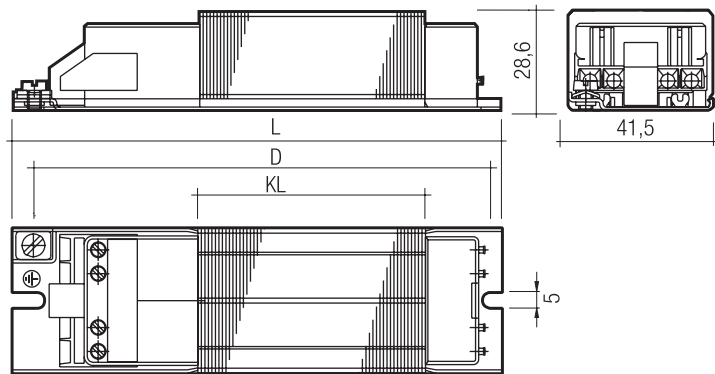
- Perfect protection system with reversible protection against short-circuit, overload and overtemperature
  - Screw terminals, nickel-plated, 0.75 – 2.5 mm<sup>2</sup> rigid and stranded wires
  - Insulation class H
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



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**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TMDC 20 B001W 230 V	24031030	25 pieces	1,250 pieces	0.40 kg
TMDC 50 B001W 230 V	24031052	20 pieces	960 pieces	0.75 kg
TMDC 70 B001W 230 V	24031071	20 pieces	800 pieces	1.10 kg
TMDC 105 B001W 230 V	24031093	10 pieces	600 pieces	1.50 kg

**Specific technical data**

Type	Article number	Lamp power	Core length KL	Length L	Hole spacing D	UL / UO	Losses	Primary current	Ambient temperature t <sub>a</sub>	Trigger value, thermal protection
TMDC 20 B001W 230 V	24031030	20 VA	35 mm	110 mm	100 mm	82 %	6.4 W	120 mA	80 °C	150 °C
TMDC 50 B001W 230 V	24031052	50 VA	78 mm	153 mm	143 mm	86 %	12.0 W	280 mA	80 °C	150 °C
TMDC 70 B001W 230 V	24031071	70 VA	110 mm	195 mm	185 mm	88 %	20.0 W	410 mA	80 °C	150 °C
TMDC 105 B001W 230 V	24031093	105 VA	165 mm	240 mm	230 mm	87 %	25.0 W	495 mA	80 °C	150 °C

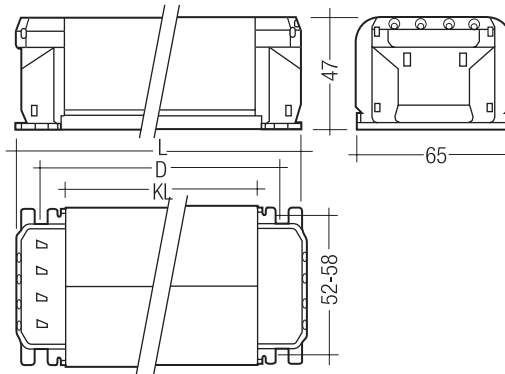




**TMBB 20 – 105 VA 230/11.5 V**  
Lamp power 20 – 105 VA

**Product description**

- Primary/secondary-side spring terminals  
0.5 – 1.5 mm<sup>2</sup> for rigid and 0.75 – 1.5 mm<sup>2</sup> for stranded wires  
(end sleeves with a max. diameter of 1.6 mm)
  - Insulation class H
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



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**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TMBB 20 B351W 230 V	20886012	10 pieces	480 pieces	0.51 kg
TMBB 35 B351W 230 V	20886034	10 pieces	480 pieces	0.61 kg
TMBB 50 B351W 230 V	20886237	10 pieces	480 pieces	0.80 kg
TMBB 80 B351W 230 V	20886075	10 pieces	480 pieces	1.14 kg
TMBB 105 B351W 230 V	20886081	10 pieces	480 pieces	1.34 kg

**Specific technical data**

Type	Article number	Lamp power	Core length KL	Length L	Hole spacing D	UL / UO	Losses	Primary current	Ambient temperature t <sub>a</sub>	Trigger value, thermal protection
TMBB 20 B351W 230 V	20886012	20 VA	15 mm	51 mm	35.5 mm	82 %	4.8 W	104 mA	100 °C	160 °C
TMBB 35 B351W 230 V	20886034	35 VA	20 mm	56 mm	40.5 mm	84 %	6.8 W	178 mA	95 °C	160 °C
TMBB 50 B351W 230 V	20886237	50 VA	30 mm	66 mm	50.5 mm	89 %	7.5 W	245 mA	100 °C	160 °C
TMBB 80 B351W 230 V	20886075	80 VA	45 mm	81 mm	65.5 mm	88 %	11.3 W	375 mA	90 °C	160 °C
TMBB 105 B351W 230 V	20886081	105 VA	55 mm	91 mm	75.5 mm	88 %	15.3 W	505 mA	80 °C	160 °C



Applies to U-type devices:



Applies to W-type devices:



**TMBC 150 – 300 VA 230/11.5 V**  
Lamp power 150 – 300 VA

### Product description

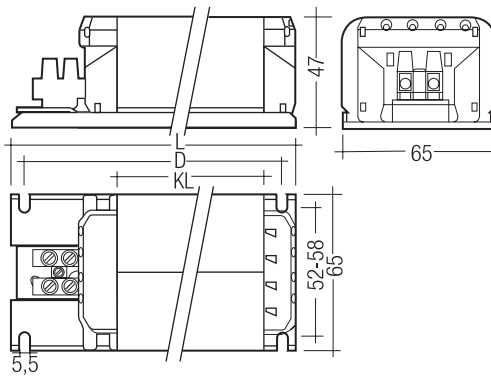
- Primary-side spring terminals  
0.5 – 1.5 mm<sup>2</sup> for rigid and 0.75 – 1.5 mm<sup>2</sup> for stranded wires  
(end sleeves with a max. diameter of 1.6 mm)
  - Secondary-side screw terminals,  
150 VA 2.5 – 6 mm<sup>2</sup>, 210 VA 4 – 10 mm<sup>2</sup>, 300 VA 4 – 10 mm<sup>2</sup>
  - Insulation class H
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



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### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>U type</b>				
TMBC 150 B551U 230 V	22158504	10 pieces	240 pieces	1.98 kg
TMBC 210 B551U 230 V	22158505	10 pieces	240 pieces	2.43 kg
TMBC 300 B551U 230 V	22115692	6 pieces	240 pieces	3.39 kg
<b>W type</b>				
TMBC 150 B551W 230 V	20886262	10 pieces	480 pieces	1.98 kg
TMBC 210 B551W 230 V	20886259	10 pieces	240 pieces	2.43 kg

### Specific technical data

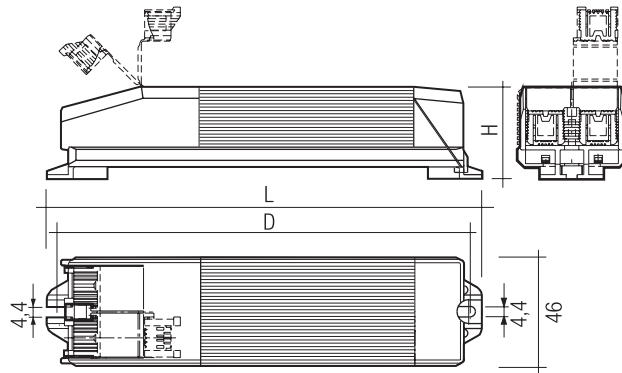
Type	Article number	Lamp power	Core length KL	Length L	Hole spacing D	UL / UO	Losses	Primary current	Ambient temperature ta	Trigger value, thermal protection	Recommended fuse value mA/T
<b>U type</b>											
TMBC 150 B551U 230 V	22158504	100 – 150 VA	85 mm	154 mm	138.5 mm	91 %	16.7 W	703 mA	90 °C	155 °C	1,000
TMBC 210 B551U 230 V	22158505	140 – 210 VA	105 mm	170 mm	154.5 mm	91 %	23.5 W	962 mA	80 °C	155 °C	1,250
TMBC 300 B551U 230 V	22115692	200 – 300 VA	150 mm	220 mm	204.5 mm	93 %	29.0 W	1,415 mA	80 °C	155 °C	2,000
<b>W type</b>											
TMBC 150 B551W 230 V	20886262	100 – 150 VA	85 mm	154 mm	138.5 mm	91 %	16.7 W	703 mA	90 °C	160 °C	–
TMBC 210 B551W 230 V	20886259	140 – 210 VA	105 mm	170 mm	154.5 mm	91 %	23.5 W	962 mA	80 °C	160 °C	–



**TMDD 50 – 105 VA 230/11.5 V**  
Lamp power 50 – 105 VA

**Product description**

- Perfect protection system with reversible protection against short-circuit, overload and overtemperature
  - Split cable clamps for primary and secondary-side conductors
  - Screw terminals, nickel-plated, 0.75 – 2.5 mm<sup>2</sup> rigid and stranded wires
  - Insulation class B
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



- **Product / function matrix**, page 277
- Standards**, page 277
- Wiring diagrams and installation examples**, page 287

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
TMDD 50 A701W 230 V	86453803	10 pieces	600 pieces	0.80 kg
TMDD 60 A601W 230 V	24030650	10 pieces	600 pieces	1.04 kg
TMDD 105 A601W 230 V	24030679	10 pieces	400 pieces	1.65 kg

**Specific technical data**

Type	Article number	Lamp power	Length L	Hole spacing D	Height H	UL / UO	Losses	Primary current	Ambient temperature t <sub>a</sub>	Trigger value, thermal protection	Max. casing temperature
TMDD 50 A701W 230 V	86453803	50 VA	182 mm	172 mm	41.4 mm	87 %	12 W	270 mA	35 °C	120 °C	80 °C
TMDD 60 A601W 230 V	24030650	60 VA	202 mm	192 mm	39.0 mm	88 %	13 W	310 mA	30 °C	120 °C	80 °C
TMDD 105 A601W 230 V	24030679	105 VA	272 mm	262 mm	39.0 mm	87 %	22 W	510 mA	25 °C	120 °C	80 °C



**OMT 150 – 300 VA 230/240/12 V**  
Lamp power 150 – 300 VA

**Product description**

- Fuse and thermal protector
  - Dimming by means of symmetrical leading-edge phase dimmer
  - Double spring terminal on the primary side, for through-wiring 0.75 – 2.5 mm<sup>2</sup>
  - Screw terminal on the secondary side, up to 10 mm<sup>2</sup>
  - Insulation class F
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

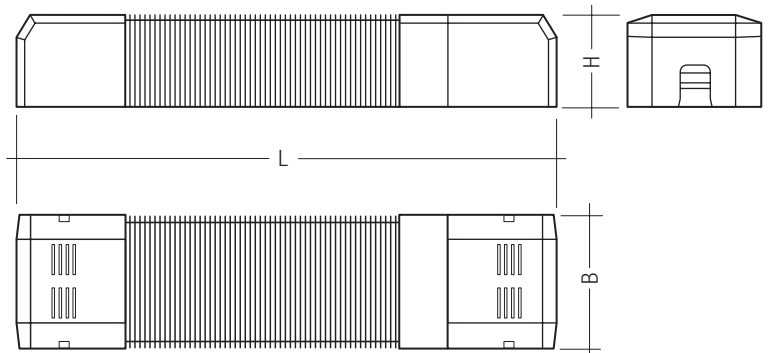
Mains voltage range	230 / 240 V
Mains frequency	50 / 60 Hz
Secondary voltage 230 / 240 V	11.4 – 11.9 V
Dimming	Balanced leading-edge phase dimmer



Product / function matrix, page 277

Standards, page 277

Wiring diagrams and installation examples, page 287



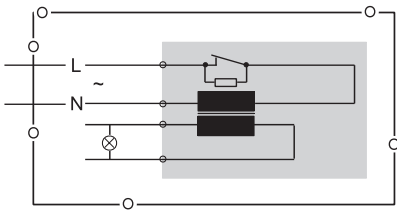
**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
OMT 150 A222W 150 VA	20882035	1 piece	138 pieces	2.4 kg
OMT 210 A222W 210 VA	20882041	1 piece	126 pieces	3.1 kg
OMT 300 A222W 300 VA	20882057	1 pieces	102 pieces	4.2 kg

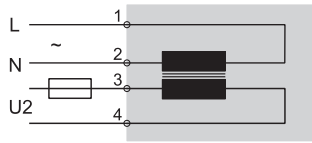
**Specific technical data**

Type	Article number	Dimensions L x W x H	Distance between mounting holes	Rated current 230 – 240 V	Lamp power range 230 V	Lamp power range 240 V	Efficiency at full load	λ at full load	Ambient temperature t <sub>a</sub>	Recommended fuse value mA/T	Max. casing temperature
OMT 150 A222W 150 VA	20882035	233 x 77.2 x 65.5 mm	190 – 210 x 63 mm	0.71 – 0.75 A	70 – 150 W	140 – 150 W	88 %	0.93 – 0.94	-20 ... +35 °C	1,000	80 °C
OMT 210 A222W 210 VA	20882041	267 x 77.2 x 65.5 mm	223 – 243 x 63 mm	0.99 – 1.03 A	100 – 210 W	200 – 210 W	91 %	0.92 – 0.93	-20 ... +35 °C	1,250	80 °C
OMT 300 A222W 300 VA	20882057	322 x 77.2 x 65.5 mm	280 – 300 x 63 mm	1.36 – 1.44 A	150 – 300 W	250 – 300 W	90 %	0.96	-20 ... +35 °C	2,000	80 °C

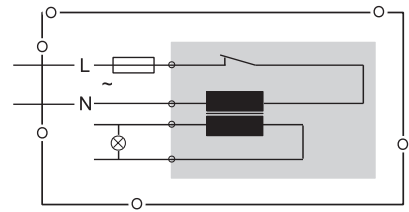
Transformer with current-sensitive thermal controller



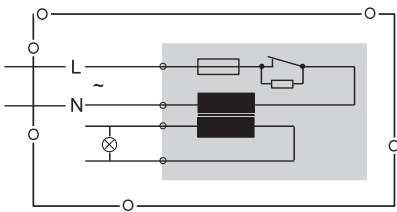
Transformer without internal protection – requires external protection



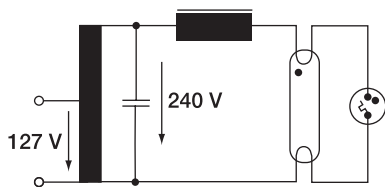
Transformer with thermal controller – external protection needed against short circuits



Transformer with thermal controller and built-in fuse to protect against short circuits



Circuit with energy-saving transformer





## Overview

Product overview	Page 292
Standards	Page 297
Lamp matrix	Page 298

## Product information

Emergency lighting units for all needs	Page 301
Instructions for selecting devices and batteries in the BLF table	Page 305

## EM INVERTER

### BASIC version

EM BASIC, 230 – 240 V 50/60 Hz	Page 306
EM MINI BASIC, 220 – 240 V 50/60 Hz	Page 313
EM T5 BASIC, 220 – 240 V 50/60 Hz	Page 315
EM BASIC Ip-2, 220 – 240 V 50/60 Hz	Page 318

### SELFTEST version

EM SELFTEST, 220 – 240 V 50/60 Hz	Page 322
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### PRO version

EM PRO EZ-3, 220 – 240 V 50/60 Hz	Page 327
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## PC COMBO

### Linear fluorescent lamps

PC COMBO, 220 – 240 V 50/60 Hz	Page 332
PC T5 COMBO Ip, 220 – 240 V 50/60 Hz	Page 335

### Compact fluorescent lamps

PC TC-L COMBO, 220 – 240 V 50/60 Hz	Page 341
PC CFL COMBO, 220 – 240 V 50/60 Hz	Page 344
PC CFL E COMBO, 230 – 240 V 50/60 Hz	Page 350

## EM powerLED

### Emergency lighting units LED

EM powerLED NM BASIC 1 W	Page 352
EM powerLED BASIC 1 – 4 W	Page 354
EM powerLED SELFTEST 1 – 4 W	Page 357
EM powerLED PRO EZ-3 1 – 4 W	Page 360
EM powerLED SELFTEST 10 W	Page 363
EM powerLED PRO 10 W	Page 365

## TALEX emergency lighting modules

### EM LED light sources

TALEXmodule STARK QLE-EM	Page 367
TALEXmodule STARK LLE-EM	Page 368
TALEXmodule SPOT P3xx EM	Page 369
TALEXmodule EM-AP	Page 371
TALEXmodule EM-ER	Page 372
TALEXmodule EM-ES 08/10/12	Page 373





## EM Controls

### Emergency lighting control systems

DALI x/e-touchPANEL 02 Page 375

## Batteries

### Nickel-Cadmium cells (NiCd)

NiCd Accus 1.6 – 4.5 Ah for 55 °C Page 376

NiCd Accus 4.0 Ah for 50 °C Page 378

NiCd Battery pack 1.6 – 4.5 Ah for 55 °C Page 379

### Nickel-Metal Hydride cells (NiMH)

NiMH Accus 2.0 – 4.0 Ah for 45 – 55 °C Page 380

## Product overview

**EM BASIC**

Lamp types: T5, T8, TC-DD, TC-L,  
TC-SEL, TC-DEL, TC-TEL

Emergency lighting unit for manual testing:

- For linear and compact fluorescent lamps
- 1 or 3 h rated operating time
- Small dimensions (28 x 39 mm cross-section)
- 5-pole technology
- NiCd batteries

**EM T5 BASIC**

Lamp types: T5

Emergency lighting unit for manual testing:

- For T5 linear lamps
- 1 or 3 h rated operating time
- Low-profile casing (21 x 30 mm cross-section)
- 5-pole technology
- NiCd and NiMH batteries

**EM MINI BASIC**

Lamp types: TC-DD, TC-F, TC-DEL,  
TC-TEL, T5c

Emergency lighting unit for manual testing:

- For compact fluorescent lamps
- 3 h rated operating time
- Small dimensions (28 x 40 mm cross-section, 150 mm length)
- 5-pole technology
- NiCd and NiMH batteries

**EM BASIC Ip-2**

Lamp types: T5, T8, TC-DD, TC-L, TC-F,  
TC-SEL, TC-DEL, TC-TEL, T5c

Emergency lighting unit for manual testing:

- For linear and compact fluorescent lamps
- 1 or 3 h rated operating time
- Low-profile casing (21 x 30 mm cross-section)
- 5-pole technology
- NiCd and NiMH batteries

**EM SELFTEST**

Lamp types: T5, T8, TC-DD, TC-L, TC-F,  
TC-SEL, TC-DEL, TC-TEL, T5c

Emergency lighting supply unit with self-test function:

- For linear and compact fluorescent lamps
- 1 or 3 h rated operating time
- Low-profile casing (21 x 30 mm cross-section)
- 5-pole technology
- Self-test: battery, lamp, charge status
- NiCd and NiMH batteries

**EM PRO EZ-3**

Lamp types: T5, T8, TC-DD, TC-L, TC-F,  
TC-SEL, TC-DEL, TC-TEL, T5c

Emergency lighting supply unit with DALI interface and automatic test function:

- For linear and compact fluorescent lamps
- 1 or 3 h rated operating time
- Low-profile casing (21 x 30 mm cross-section)
- 5-pole technology
- Tests: battery, lamp, charge status
- NiCd and NiMH batteries

## Product overview

**PC COMBO**

Lamp types: T5, T8, TC-L

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For T5/T8 fluorescent lamps and compact fluorescent lamps
- Simple wiring
- 1 or 3 h rated operating time
- NiCd and NiMH batteries

**PC T5 COMBO Ip**

Lamp types: T5

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For T5 fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)
- Simple wiring
- 1 or 3 h rated operating time
- NiCd and NiMH batteries

**PC CFL COMBO**

Lamp types: TC-DD, TC-DEL, TC-TEL

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For compact fluorescent lamps
- Simple wiring
- IDC (insulation displacement connection)
- 1 or 3 h rated operating time
- NiCd and NiMH batteries

**PC CFL E COMBO**

Lamp types: 28 W TC-DD

Combination of electronic ballast and emergency lighting unit:

- For manual testing of the emergency lighting function
- For 28 W TC-DD compact fluorescent lamps
- Simple wiring
- Plug-in terminal
- 3 h rated operating time
- NiCd batteries

## Product overview

**EM powerLED NM BASIC**

Lamp types: LED

LED emergency lighting supply unit for manual testing:

- Standby operation
- Low-profile casing (21 x 30 mm cross-section)
- 3 h rated operating time
- 1, 2 or 4 W version
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiCd and NiMH batteries

**EM powerLED BASIC**

Lamp types: LED

LED emergency lighting supply unit for manual testing:

- Low-profile casing (21 x 30 mm cross-section)
- 1, 2 or 3 h rated operating time
- 1, 2 or 4 W version
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiMH batteries

**EM powerLED SELFTEST**

Lamp types: LED

LED emergency lighting supply unit with self-test function:

- Low-profile casing (21 x 30 mm cross-section)
- 1, 2 or 3 h rated operating time
- 1, 2 or 4 W version
- Tests: battery, lamp, charge status
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiMH batteries

**EM powerLED PRO EZ-3**

Lamp types: LED

LED emergency lighting supply unit with DALI interface and automatic test function:

- DALI switchable in mains operation (on/off)
- 1, 2 or 3 h rated operating time
- 1, 2 or 4 W version
- Tests: battery, lamp, charge status
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiMH batteries

**EM powerLED SELFTEST 10 W**

Lamp types: LED

LED emergency lighting supply unit with self-test function:

- Mains and emergency operation
- Low-profile casing (21 x 30 mm cross-section)
- 1, 2 or 3 h rated operating time
- 10 W normal operation
- 1 W emergency operation
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiMH batteries

**EM powerLED PRO 10 W**

Lamp types: LED

LED emergency lighting supply unit with DALI interface and automatic test function:

- Mains and emergency operation
- Dimmable via DALI in normal operation
- Low-profile casing (21 x 30 mm cross-section)
- 1, 2 or 3 h rated operating time
- 10 W normal operation
- 1 W emergency operation
- SELV classified (outputs powerLED, battery, status LED, test switch)
- NiMH batteries

## Product overview



**TALEXmodule STARK QLE-EM**  
**TALEXmodule STARK LLE-EM**

LED emergency lighting module:

- For general and emergency lighting
- Separate wired emergency LEDs
- Minimal reduction in luminous flux of emergency LEDs throughout the lifetime
- Compatible with EM powerLED



**TALEXmodule SPOT P3xx EM**

LED emergency lighting module:

- For general and emergency lighting
- Separate wired emergency LEDs
- Minimal reduction in luminous flux of emergency LEDs throughout the lifetime.
- Compatible with EM powerLED



**TALEXmodule EM-AP**

LED emergency lighting module:

- High-power LED in COB technology
- For anti-panic emergency lighting
- Small dimensions
- Long life thanks to integrated heat removal
- Integrated two-colour status LED



**TALEXmodule EM-ER**

LED emergency lighting module:

- High-power LED in COB technology
- For escape route lighting
- Small dimensions
- Long life thanks to integrated heat removal
- Integrated two-colour status LED



**TALEXmodule EM-ES 08/10/12**

Lighting module with 8, 10 or 12 high-power LEDs  
(emergency lighting strip):

- For use in escape route signs
- For permanent and standby operation
- Replacement for 8 W T5 linear lamps
- Low energy consumption
- Long life for maintenance-free escape sign system

## Product overview

**DALI x/e-touchPANEL 02**

Emergency lighting control system for 120 DALI emergency lighting units:

- 2 DALI circuits for 60 emergency lighting units each
- Calendar-controlled function and service life test
- User-friendly application software
- Simple downloading of the test report to a PC via Ethernet
- Panels can be connected together to create large installations
- Can be remote-controlled via standard internet browser or em-LINK software

**NiCd accus 1.6 – 4.5 Ah for 55 °C**

High-temperature NiCd cells for use with emergency lighting units:

- Constant high-temperature operation at 55 °C
- 4-year life operating at maximum temperature
- In various configurations
- High-quality European manufacturer
- Suitable for emergency lighting equipment as per IEC 60598-2-22

**NiCd accus 4 Ah for 50 °C**

High-temperature NiCd cells for use with emergency lighting units:

- Constant high-temperature operation at 50 °C
- 4-year life operating at maximum temperature
- In various configurations
- High-quality European manufacturer
- Suitable for emergency lighting equipment as per IEC 60598-2-22

**NiCd battery pack 1.6 – 4.5 Ah for 55 °C**

High-temperature NiCd battery pack for use with emergency lighting units:

- 4-year life operating at maximum temperature
- Polycarbonate casing material
- 1.0 m integrated double-insulated cable
- High-quality European manufacturer
- Suitable for emergency lighting equipment as per IEC 60598-2-22

**NiMH accus 2.0 – 4.0 Ah for 45 – 55 °C**



High-temperature NiMH cells for use with emergency lighting units:

- Eco-friendly because there is no cadmium
- Low profile, 22 mm cross-section
- 4-year life operating at maximum temperature
- High-quality European manufacturer
- Suitable for emergency lighting equipment as per IEC 60598-2-22

## Standards

Series	Type	Page	acc. to EN 50172	acc. to EN 60598-2-22	EN 61347-2-3	EN 61347-2-7	EN 61347-2-13	EN 60929	EN 62384	EN 62471	EN 62031	EN 62034	EN 55015	EN 55022	EN 61000-3-2	EN 61000-3-3	EN 61547	EN 61000-6-2	IEC 62386-102	IEC 62386-202
EM INVERTER	EM BASIC	Page 306	•	•		•		•					•		•	•	•			
	EM MINI BASIC	Page 313	•	•		•		•					•		•	•	•			
	EM T5 BASIC	Page 315	•	•		•		•					•		•	•	•			
	EM BASIC Ip-2	Page 318	•	•		•		•					•		•	•	•			
	EM SELFTTEST	Page 322	•	•		•		•				•	•		•	•	•			
	EM PRO EZ-3	Page 327	•	•		•		•				•	•		•	•	•		•	•
PC COMBO	PC COMBO	Page 332	•	•	•	•		•					•		•	•	•			
	PC T5 COMBO Ip	Page 335	•	•	•	•		•					•		•	•	•			
	PC TC-L COMBO	Page 341	•	•	•	•		•					•		•	•	•			
	PC CFL COMBO	Page 344	•	•	•	•		•					•		•	•	•			
	PC CFL E COMBO	Page 350	•	•	•	•		•					•		•	•	•			
EM powerLED	EM powerLED NM BASIC 1 W	Page 352	•	•		•	•		•				•		•	•	•			
	EM powerLED BASIC 1 – 4 W	Page 354	•	•		•	•		•				•		•	•	•			
	EM powerLED SELFTTEST 1 – 4 W	Page 357	•	•		•	•		•			•	•		•	•	•			
	EM powerLED PRO EZ-3 1 – 4 W	Page 360	•	•		•	•		•			•	•		•	•	•		•	•
	EM powerLED SELFTTEST 10 W	Page 363	•	•		•	•		•			•	•		•	•	•			
	EM powerLED PRO 10 W	Page 365	•	•		•	•		•			•	•		•	•	•		•	•
EM-LED light sources	TALEXmodule STARK QLE-EM	Page 367								•	•									
	TALEXmodule STARK LLE-EM	Page 368								•	•									
	TALEXmodule SPOT P3xx EM	Page 369								•	•									
	TALEXmodule EM-AP	Page 371								•	•									
	TALEXmodule EM-ER	Page 372								•	•									
	TALEXmodule EM-ES 08/10/12	Page 373								•	•									
EM Controls	DALI x/e-touchPANEL 02	Page 375											•	•	•	•	•	•		
Batteries	NIcd accus	Page 376		•																
	NIMH accus	Page 380		•																








## Lamp matrix EM INVERTER

		BASIC				SELFTEST	PRO
Type		EM BASIC	EM MINI BASIC	EM T5 BASIC	EM BASIC Ip-2	EM SELFTEST	EM PRO EZ-3
Lamp	Wattage	Page 306	Page 313	Page 315	Page 318	Page 322	Page 327
T5 	4 W	•					
	6 W	•			•	•	•
	8 W	•			•	•	•
	13 W	•			•	•	•
	14 W	•		•	•	•	•
	21 W	•		•	•	•	•
	24 W	•		•	•	•	•
	28 W	•		•	•	•	•
	35 W			•	•	•	•
	39 W			•	•	•	•
	49 W			•	•	•	•
	54 W			•	•	•	•
	80 W			•	•	•	•
T8 	15 W				•	•	•
	18 W	•			•	•	•
	30 W	•			•	•	•
	36 W	•			•	•	•
	38 W				•	•	•
	58 W	•			•	•	•
	70 W	•			•	•	•

The latest lamp matrix incl. additional approvals for other lamp types can be downloaded from the internet at [www.tridonic.com](http://www.tridonic.com), "Technical Data" menu, "Lamp Matrix" submenu









## Lamp matrix EM INVERTER

Lamp	Type	Wattage	BASIC				SELFTEST	PRO
			EM BASIC Page 306	EM MINI BASIC Page 313	EM T5 BASIC Page 315	EM BASIC Ip-2 Page 318	EM SELFTEST Page 322	EM PRO EZ-3 Page 327
TC-L		18 W	•			•	•	
		24 W	•			•	•	
		34 W	•					
		36 W	•			•	•	•
		40 W	•			•	•	•
		55 W	•			•	•	•
TC-F		18 W						
		24 W						
		36 W		•				
TC-SEL		5 W	•					
		7 W	•			•	•	
		9 W	•			•	•	
		11 W	•			•	•	
TC-DEL		10 W	•			•	•	
		13 W	•			•	•	
		18 W	•	•		•	•	
		26 W	•	•		•	•	
TC-TEL		13 W	•			•	•	
		18 W	•	•		•	•	
		26 W	•	•		•	•	
		32 W	•			•	•	
		42 W	•			•	•	
		57 W				•	•	
T5-Circline		22 W		•		•	•	
		40 W				•	•	
		55 W				•	•	
TC-DD		10 W	•			•	•	
		16 W	•			•	•	
		21 W	•			•	•	
		28 W	•	•		•	•	
		38 W	•	•		•	•	
		55 W	•			•	•	

The latest lamp matrix incl. additional approvals for other lamp types can be downloaded from the internet at [www.tridonic.com](http://www.tridonic.com), "Technical Data" menu, "Lamp Matrix" submenu

## Lamp matrix PC COMBO

		BASIC					
Lamp	Type	Wattage	PC COMBO Page 332	PC T5 COMBO Ip Page 335	PC TCL COMBO Page 341	PC CFL COMBO Page 344	PC CFL E COMBO Page 350
T5		14 W	•	•			
		21 W		•			
		24 W	•	•			
		28 W		•			
		35 W		•			
		39 W		•			
		49 W		•			
		54 W		•			
		80 W		•			
T8		15 W					
		18 W	•				
		30 W					
		36 W	•				
		38 W					
		58 W	•				
		70 W					
TC-L		36 W			•	•	
		40 W			•		
		55 W			•		
TC-DEL		18 W				•	
		26 W				•	
TC-TEL		13 W					
		18 W				•	
		26 W					•
		32 W					•
		42 W					•
TC-DD		10 W					
		16 W				•	
		21 W					
		28 W					•
		38 W					•
		55 W					

The latest lamp matrix incl. additional approvals for other lamp types can be downloaded from the internet at [www.tridonic.com](http://www.tridonic.com), "Technical Data" menu, "Lamp Matrix" submenu

## Emergency lighting units for all needs



Emergency lighting systems are compulsory in many official buildings and in many work places so that in the unlikely event of a power failure people can find their way around safely. Safety lights and escape route lights provide enough light to shut machinery down, use the escape routes and give quick access to fire extinguishers and other safety equipment. They prevent panic and save lives.

Tridonic offers a broad range of emergency lighting units for battery powered emergency lighting systems perfectly matched to the requirements of various country-specific standards – whatever the circumstances and whatever the types of lamp.



EM PRO

The range comprises EM BASIC, PC COMBO, EM SELFTEST, EM PRO and EM powerLED units, covering everything from the simple to the highly intelligent, and from low-cost units to high-end solutions.

### Properties for greater safety

Electrode heating, “Boost Start” and an optimised ballast-lumen factor in the emergency lighting units from Tridonic ensure optimum lamp function in emergency lighting mode. In addition, five-pole technology ensures compatibility, safety and reliability with all standard control gears. Four relay poles switch the lamp, the fifth relay pole guarantees delayed re-connection of the control gear to the mains power supply when this returns.

This means the units are compatible with digital dimmable and non-dimmable electronic and conventional control gear.

The units can be used in permanent or standby mode. In other words, the emergency lighting units together with the ECG or CCG are either responsible for normal operation of the lamp or – if directly connected – just emergency lighting operation. The relevant versions guarantee emergency lighting for 1, 2 or 3 hours of rated output.

The intelligent multi-level charging system from Tridonic offers “gentle operation” on the EM BASIC Ip, EM SELFTEST, EM PRO and EM powerLED emergency lighting units, thereby guaranteeing long life for both rechargeable nickel cadmium (NiCd) and nickel metal hydride (NiMH) batteries.

Tridonic expertise in emergency lighting is the perfect basis for intelligent solutions.

### Long equipment life

Thanks to their high-quality components, intelligent circuit design and extensive testing under rated conditions, emergency lighting units from Tridonic achieve an average life of 50,000 hours – with a probability of failure of less than 10 %, in other words, an average failure rate of 0.2 % per 1,000 hours of operation.

### Cost-effective emergency lighting

The EM BASIC units have been designed for cost-effective emergency lighting systems in which all the testing and monitoring algorithms are to be performed manually. This simple solution covers the entire range of T5, T8 and compact fluorescent lamps. The EM T5 BASIC emergency lighting unit shares the same simple design. Thanks to its low-profile casing measuring just 21 mm high, it is ideal for use in small and stylish luminaires fitted with T5 lamps.

### Single-component solution

PC COMBO's combine standard control gear and emergency lighting unit in one device. This greatly simplifies the wiring and installation of emergency luminaires. The one to four-lamp versions of PC COMBO for T8 and T5 fluorescent lamps provide a high degree of flexibility.

The PC CFL COMBO single-component solution is suitable for emergency lighting systems based on one or two-lamp luminaires fitted with compact fluorescent lamps.

### LED emergency lighting

LEDs are becoming more and more important as light sources in emergency lighting systems and also in a whole series of general illumination applications. Tridonic's expertise and powers of innovation in developing future-proof solutions are playing a major role here.



TALEXmodule SPOT

The EM powerLED emergency lighting ballasts in conjunction with the TALEX light modules are ideal for a large number of emergency lighting applications.



EM powerLED

EM powerLED is a combined solution for applications in continuous operation and in standby mode with low to mid-range output.



EM powerLED and TALEXmodule STARK LLE

Just like the emergency lighting units for fluorescent lamps, the devices for LED solutions are available with different test methods for emergency lighting functionality: BASIC devices for manual tests, SELFTEST for automatically controlled test procedures and the PRO series for tests with DALI addressing.

### Simplified testing

The EM SELFTEST emergency lighting unit with its automatic testing algorithms offers intelligence in an extremely small format. At just 21 mm high, the unit is compatible with T5 control gear. The perfectly matched range of units is designed for tubular or compact fluorescent lamps from 4 to 80 W.

In self-test mode the module uses a light-emitting diode to signal its operating status. Green means that the emergency lighting system is operating correctly. A red flashing LED indicates faulty batteries and a permanent red light indicates a lamp fault.

The test functions supported by the EM SELFTEST emergency lighting unit are continual monitoring, a weekly function test and an annual service life test. In charging mode both the charging conditions and the static battery stats are monitored.

The EM SELFTEST emergency lighting unit includes functionality for monitoring the installation phase, i.e. a period of time with an uninterrupted power supply on more than five successive days. As soon as this requirement is met the module automatically starts the commissioning and testing program. EM SELFTEST therefore complies with the commissioning test after installation prescribed in accordance with the self-test standard as per IEC 62034. This degree of automation considerably reduces the time needed for commissioning and programming the test algorithms.

### Combination of emergency lighting and DALI

The special feature of EM PRO units from Tridonic is that they can be operated with DALI emergency control systems or can be successfully integrated in DALI-based lighting systems. This means that the entire functionality of DALI systems can be accessed, including individual addressability.



DALI x/e-touchPANEL 02  
for controlling and monitoring  
up to 120 DALI emergency  
lighting units

Individually addressable emergency lighting units have a certain level of “intelligence”. In these cases, the fault reporting function provides more information than simply that the lamp, control gear or battery is faulty. Detailed information on say, the type of lamp or device status can be displayed either locally or centrally. This extensive functionality of EM PRO emergency lighting units, which also have the “capabilities” of the EM SELFTEST module, has benefits in terms of facility management, particularly for operating large lighting systems.

### Intelligent charging system

The intelligent multi-level charging system from Tridonic ensures that the charging behaviour is tailored to the particular battery type. As its name suggests, the multi-level charging system has three different charging cycles, namely initial charge, power charge mode and trickle charge mode.

### Constant high quality

The consistently high quality and reliability of emergency lighting units from Tridonic is guaranteed by the use of high-grade materials together with manufacturing processes and equipment certified to ISO 9001 and multi-stage thermal function tests. Fully automatic manufacture also ensures constant reproducible quality. All the units are subjected to 100% final testing.

### Standards and approval marks

Emergency lighting units from Tridonic are ENEC certified, carry the CE and RCM mark and meet all the European as well as international standards relating to safety, operation and electro-magnetic compatibility (EMC).

### Lamp matrix

Which control gear for which lamp? The latest lamp matrix with additional approved luminaires is available on the internet: [www.tridonic.com](http://www.tridonic.com), menu “Technical data”, submenu “Lamp matrix”

### Technical information

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu “Technical data”, submenu “Data sheets”

### Personal enquiries

A form for personal enquiries is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu “Contact”, submenu “Contact form”

## Instructions for selecting devices and batteries

### Ballast Lumen Factor (BLF) in %

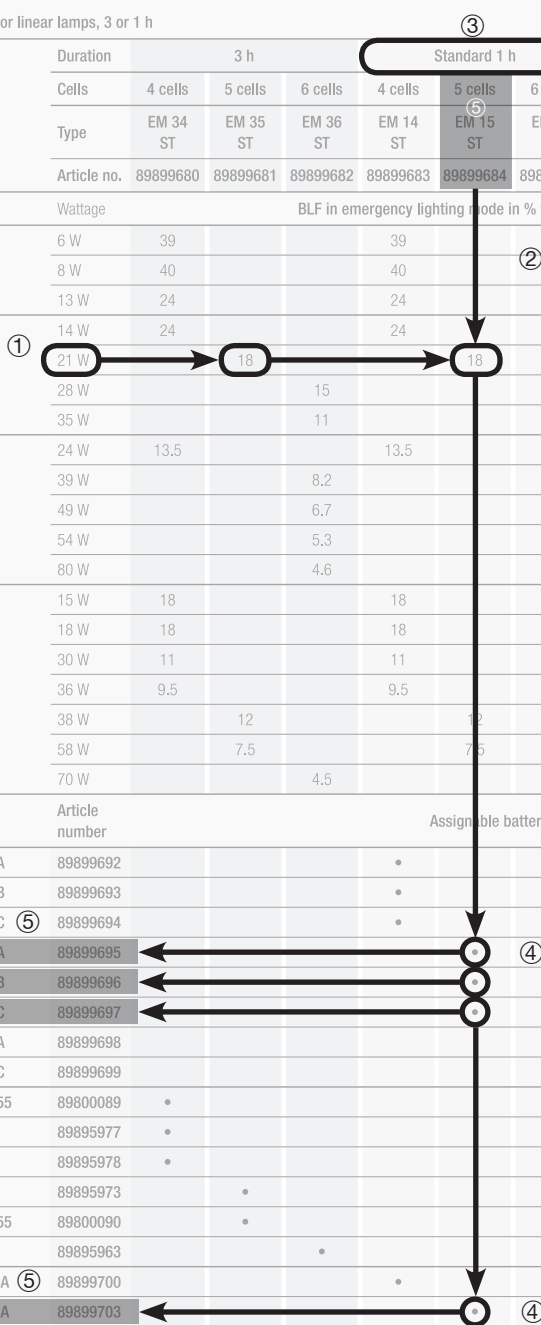
EM SELFTEST for linear lamps, 3 or 1 h

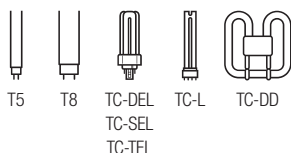
Duration	3 h			Standard 1 h			High Output 1 h		
	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
Type	EM 34 ST	EM 35 ST	EM 36 ST	EM 14 ST	EM 15 ST	EM 16 ST	EM 14 HO ST	EM 15 HO ST	EM 16 HO ST
Article no.	89899680	89899681	89899682	89899683	89899684	89899685	89899686	89899687	89899688

Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time								
T5	6 W	39			39			70		
	8 W	40			40			68		
	13 W	24			24			55		
T5 FH	14 W	24			24			47		
	21 W								43	
	28 W			15			15			39
T5 FQ	35 W			11			11			30
	24 W	13.5			13.5			29		
	39 W			8.2			8.2			30
	49 W			6.7			6.7			20
	54 W			5.3			5.3			23
T8	80 W			4.6			4.6			14
	15 W	18			18			36		
	18 W	18			18			36		
	30 W	11			11			24		
	36 W	9.5			9.5			20		
	38 W		12			12				
	58 W		7.5			7.5			17	
	70 W			4.5			4.5			

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries
NiCd 1.6 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692	•
	Side by side	4	Accu-NiCd C 4B	89899693	•
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694	•
	Stick	5	Accu-NiCd C 5A	89899695	•
	Side by side	5	Accu-NiCd C 5B	89899696	•
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697	•
	Stick	6	Accu-NiCd C 6A	89899698	•
NiCd 4 Ah D-cells	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699	•
	Stick	4	Accu-NiCd 4A 55	89800089	•
	Side by side	4	Accu-NiCd 4B	89895977	•
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•
	Stick	5	Accu-NiCd 5A	89895973	•
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090	•
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963	•
NiMH 2 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700	•
	Stick	5	Accu-NiMH C 5A	89899703	•
	Stick	6	Accu-NiMH C 6A	89899706	•
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707	•
NiMH 4 Ah Cs-cells	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851	•
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852	•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853	•





**EM BASIC, 230 – 240 V 50/60 Hz**  
BASIC version

**Product description**

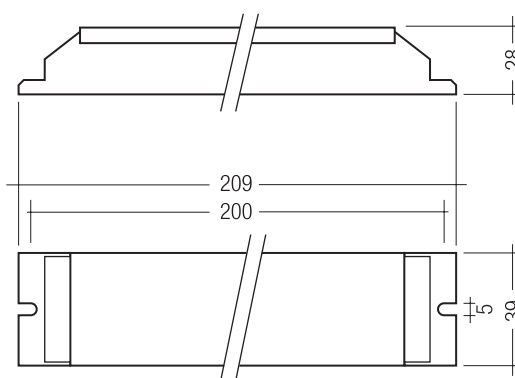
- Emergency lighting supply unit for manual testing
- For linear and compact fluorescent lamps
- Small dimensions (28 x 39 mm cross-section)

**Properties**

- 1 or 3 h rated duration
- Compatible with all electronic ballasts (dimnable and non-dimnable)
- Can also be used in combination with conventional magnetic ballasts
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- Optimised AC output voltage for TC-DD and TC-L lamps
- Optimised DC output voltage for T8 lamps
- Cathode heating adapted for compact lamps
- Switchover relay with high-current contacts
- IDC (insulation displacement connection)
- Green charge status display LED
- Checking the emergency lighting function by interrupting the unswitched phase
- Optional test switch
- Deep discharge protection
- Battery connection, short-circuit protected (not reversible)
- Polarity reversal protection for battery

**Batteries**

- High-temperature cells
  - NiCd batteries
  - D or Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Mains current	0.04 A
Rated power	7 W
Battery charging time	24 h
Discharge current 1 h Cs cells	1.1 A
Discharge current 1 h D cells	2.25 A
Discharge current 3 h	1.1 A
Charge current Cs cells	120 mA
Charge current D cells	210 mA
Leakage current (PE)	0.5 mA
Ambient temperature $t_a$	0 ... +50 °C
Max. casing temperature $t_c$	75 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency mode)	0 °C
Type of protection	IP20

**Ordering data**

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 h</b>					
EM 33A BASIC	89818556	3	25 pieces	750 pieces	0.337 kg
EM 33B BASIC	89818655	3	25 pieces	750 pieces	0.329 kg
EM 33C BASIC	89800000	3	25 pieces	750 pieces	0.337 kg
EM 34A BASIC	89818557	4	25 pieces	750 pieces	0.337 kg
EM 34B BASIC <sup>①</sup>	89818662	4	25 pieces	750 pieces	0.324 kg
EM 34C BASIC	89800107	4	25 pieces	750 pieces	0.324 kg
EM 35A BASIC	89818581	5	25 pieces	750 pieces	0.337 kg
EM 35B BASIC	89818667	5	25 pieces	750 pieces	0.326 kg
EM 35C BASIC	89800001	5	25 pieces	750 pieces	0.328 kg
EM 35D BASIC	89899621	5	25 pieces	750 pieces	0.337 kg
EM 36A BASIC	89818654	6	25 pieces	750 pieces	0.337 kg

<sup>①</sup> EM 34B BASIC also available in 110 V AC version.



Standards, page 297

Lamp matrix, page 298

Batteries, page 376

For wiring diagrams and installation examples see data sheet



Ordering data

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
EM 36C BASIC	89800108	6	25 pieces	750 pieces	0.337 kg
EM 36C H0 BASIC	89800109	6	25 pieces	750 pieces	0.337 kg
Rated operating time 1 h					
EM 13B BASIC	89895971	3	25 pieces	750 pieces	0.337 kg
EM 13E BASIC	89899864	3	25 pieces	750 pieces	0.337 kg
EM 14B BASIC	89899611	4	25 pieces	750 pieces	0.337 kg
EM 14C BASIC	89800118	4	25 pieces	750 pieces	0.324 kg
EM 16C BASIC	89800119	6	25 pieces	750 pieces	0.337 kg
EM 16C H0 BASIC	89800120	6	25 pieces	750 pieces	0.337 kg

® EM 34B BASIC also available in 110 V AC version.

RoHS

ACCES-  
SORIES

Test switch EM2



Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

Product description

- For connection to the emergency lighting unit
- For checking the device function

RoHS

ACCES-  
SORIES

Status indication green LED



Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg

Product description

- A green LED indicates that charging current is flowing into the battery

Emergency  
lighting units

Ballast Lumen Factor (BLF) in %

EM BASIC for linear lamps, 1 h

	1 h	3 cells		4 cells		6 cells	
	Type	EM 13B BASIC	EM 13E BASIC ①	EM 14B BASIC	EM 14C BASIC	EM 16C BASIC	EM 16C HO BASIC
	Article no.	89895971	89899864	89899611	89800118	89800119	89800120
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time					
T8	18 W	22		25			
	36 W	16		19			
	58 W		10	14			
T5	4 W						
	6 W						
	8 W						
	13 W						
	14 W				21	in preparation	
	21 W					in preparation	
	24 W				14		
	28 W					in preparation	
	35 W					13	
	39 W					in preparation	
	49 W						
	54 W						6.5
	80 W						4.5

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries			
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•		
	Side by side	3	Accu-NiCd 3B	89895976	•	•		
	Stick	4	Accu-NiCd 4A 55	89800089			•	•
	Side by side	4	Accu-NiCd 4B	89895977			•	•
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978			•	•
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963				•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① For extended application of the lamp please see E 005en\_EM BASIC\_Extended Application\_V1.pdf at [www.tridonic.com](http://www.tridonic.com).

**Ballast Lumen Factor (BLF) in %**

EM BASIC for linear lamps, 3 h

	3 h	3 cells			4 cells		
	Type	EM 33A BASIC	EM 33B BASIC	EM 33C BASIC	EM 34A BASIC	EM 34B BASIC ②	EM 34C BASIC
	Article no.	89818556	89818655	89800000	89818557	89818662	89800107
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time					
T5	4 W	25			30		
	6 W	26			32		
	8 W	27			32		
	13 W	25			30		
	14 W	16			21		21
	21 W				21 ①		
	24 W						24
	28 W						
	35 W						
	39 W						
	49 W						
	54 W						
80 W							
T8	18 W		10			12	
	30 W		9			13	
	36 W		8			10	
	58 W					7	
	70 W						

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries					
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•	•			
	Side by side	3	Accu-NiCd 3B	89895976	•	•	•			
	Stick	4	Accu-NiCd 4A 55	89800089				•	•	•
	Side by side	4	Accu-NiCd 4B	89895977				•	•	•
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978				•	•	•
	Stick	5	Accu-NiCd 5A	89895973						
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090						
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963						

Notes: Not suitable for use with compact amalgam lamps.

50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① For 2-hour operation only.

② For extended application of the lamp please see E 005en\_EM BASIC\_Extended Application\_V1.pdf at [www.tridonic.com](http://www.tridonic.com).

**Ballast Lumen Factor (BLF) in %**

EM BASIC for linear lamps, 3 h

	3 h	5 cells		6 cells		
	Type	EM 35A BASIC	EM 35B BASIC	EM 36A BASIC	EM 36C BASIC	EM 36C HO BASIC
	Article no.	89818581	89818667	89818654	89800108	89800109
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time				
T5	4 W	37		44		
	6 W	40		48		
	8 W	40		48		
	13 W	37		44		
	14 W	32			in preparation	
	21 W	28.5 ①			in preparation	
	24 W	19				
	28 W		14 ②③		in preparation	
	35 W				13	
	39 W				in preparation	
	49 W					
	54 W					6.5
	80 W					4.5
T8	18 W	18	13			
	30 W	18	14			
	36 W	16	10			
	58 W		7			
	70 W		7			

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries					
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960						
	Side by side	3	Accu-NiCd 3B	89895976						
	Stick	4	Accu-NiCd 4A 55	89800089						
	Side by side	4	Accu-NiCd 4B	89895977						
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978						
	Stick	5	Accu-NiCd 5A	89895973	•	•				
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090	•	•				
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963			•	•	•	

Notes: Not suitable for use with compact amalgam lamps.  
50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

- ① For 2-hour operation only.
- ② Used only in a permanent circuit because mercury migration may occur during emergency operation.
- ③ Lamp restrictions apply; for more information contact Tridonic.

**Ballast Lumen Factor (BLF) in %**

EM BASIC for compact lamps, 3 h

	3 h	3 cells		4 cells	
	Type	EM 33A BASIC	EM 33C BASIC	EM 34A BASIC	EM 34B BASIC ②
	Article no.	89818556	89800000	89818557	89818662
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time			
TC-DD	10 W	27		30	
	16 W	24		24	
	21 W			20	
	28 W			19	
	38 W				
	55 W				
TC-SEL	5 W		20		
	7 W		14		
	9 W		11		
	11 W		16		
TC-DEL	10 W		13		
	13 W		16		
	18 W				
	26 W				
TC-TEL	13 W		10		
	18 W				
	26 W				
	32 W				
	42 W				
TC-L	18 W	18		18	
	24 W			17	
	34 W				9 ①
	36 W				9 ①
	40 W				8 ①
	55 W				5 ①

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries			
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•		
	Side by side	3	Accu-NiCd 3B	89895976	•	•		
	Stick	4	Accu-NiCd 4A 55	89800089			•	•
	Side by side	4	Accu-NiCd 4B	89895977			•	•
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978			•	•
	Stick	5	Accu-NiCd 5A	89895973				
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090				
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963				

Notes: Not suitable for use with compact amalgam lamps.

50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① Used only in a permanent circuit because mercury migration may occur during emergency operation.

② For extended application of the lamp please see E 005en\_EM BASIC\_Extended Application\_V1.pdf at [www.tridonic.com](http://www.tridonic.com).

**Ballast Lumen Factor (BLF) in %**

**EM BASIC for compact lamps, 3 h**

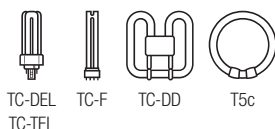
	3 h	5 cells				6 cells	
		Type	EM 35A BASIC	EM 35B BASIC	EM 35C BASIC	EM 35D BASIC	EM 36A BASIC
		Article no.	89818581	89818667	89800001	89899621	89818654
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time					
TC-DD	10 W	39				46	
	16 W	31				37	
	21 W	25				30	
	28 W	21				25	
	38 W	15				18	
	55 W					14	
TC-SEL	5 W						
	7 W						
	9 W						
	11 W						
TC-DEL	10 W						
	13 W						
	18 W			12			
	26 W			15			
TC-TEL	13 W			16			
	18 W			12			
	26 W			15			
	32 W				7		
	42 W				5		
TC-L	18 W	19				22	
	24 W	20				24	
	34 W	19				22	
	36 W	20				24	
	40 W		10 ②			8 ①	
	55 W		6 ②			6 ①	

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries				
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960					
	Side by side	3	Accu-NiCd 3B	89895976					
	Stick	4	Accu-NiCd 4A 55	89800089					
	Side by side	4	Accu-NiCd 4B	89895977					
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978					
	Stick	5	Accu-NiCd 5A	89895973	•	•	•	•	
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090	•	•	•	•	
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963					•

Notes: Not suitable for use with compact amalgam lamps.  
50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① For 2-hour operation only.

② Used only in a permanent circuit because mercury migration may occur during emergency operation.



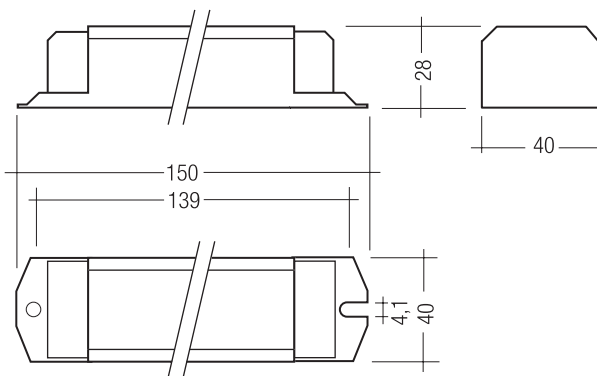
**EM MINI BASIC, 220 – 240 V 50/60 Hz**  
BASIC version

**Product description**

- Emergency lighting supply unit for manual testing
- For compact fluorescent lamps
- Small dimensions (28 x 40 mm cross-section, 150 mm length)

**Properties**

- 3 h rated duration
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- Can also be used in combination with conventional magnetic ballasts
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- Switchover relay with high-current contacts
- IDC (insulation displacement connection)
- Green charge status display LED
- Checking the emergency lighting function by interrupting the unswitched phase
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery



**Batteries**

- High-temperature cells
  - NiCd or NiMH batteries
  - D or Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	0.03 A
Rated power	3.9 W
Battery charging time	24 h
Discharge current	1.1 A
Charge current	210 mA
Leakage current (PE)	0.5 mA
Ambient temperature $t_a$	0 ... +50 °C
Max. casing temperature $t_c$	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency mode)	0 °C
Type of protection	IP20

**Ordering data**

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 h</b>					
EM 33A MINI BASIC	89899951	3	25 pieces	1,000 pieces	0.155 kg
EM 34A MINI BASIC	89899950	4	25 pieces	1,000 pieces	0.155 kg
EM 34C MINI BASIC	89899952	4	25 pieces	1,000 pieces	0.155 kg

Standards, page 297

Lamp matrix, page 298

Batteries, page 376

For wiring diagrams and installation examples see data sheet

RoHS

ACCES-  
SORIES

Status indication green LED

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg

Ballast Lumen Factor (BLF) in %

EM MINI BASIC for compact lamps, 3 h

	3 h	3 cells		
		4 cells		
		EM 33A MINI BASIC	EM 34A MINI BASIC	EM 34C MINI BASIC
Article no.	89899951	89899950	89899952	
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time		
TC-DD	28 W	9		
	38 W			6.5
TC-F	36 W		11.5	
	TC-DEL	18 W	16.5	
TC-TEL	26 W		13	
	26 W		16.5	
T5c	18 W		13	
	22 W		16	

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries		
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•		
	Side by side	3	Accu-NiCd 3B	89895976	•		
	Stick	4	Accu-NiCd 4A 55	89800089		•	•
	Side by side	4	Accu-NiCd 4B	89895977		•	•
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978		•	•
NiMH 4 Ah Cs-cells ①	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•		
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850		•	•
Accupack NiCd (high temperature)	Accupack 4 Ah	3	Pack-NiCd 3D	89899672	•		
	Accupack 4 Ah	4	Pack-NiCd 4D	89899673		•	•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① Maximum battery housing temperature 45 °C.





**EM T5 BASIC, 220 – 240 V 50/60 Hz**  
BASIC version

**Product description**

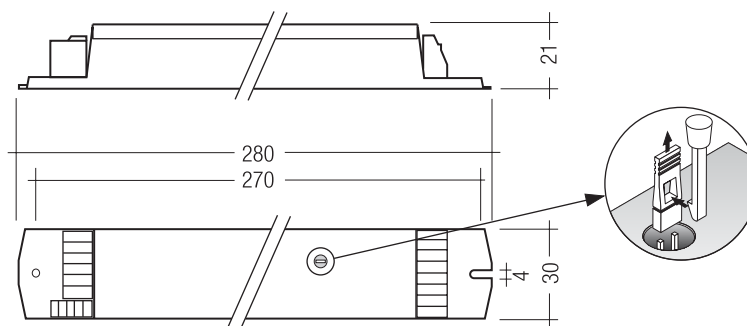
- Emergency lighting supply unit for manual testing
- For T5 fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)

**Properties**

- 1 or 3 h rated duration
- Selectable operating time (jumper)
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- High-frequency ac operation of the lamp
- Gentle on the lamp thanks to permanent cathode heating in emergency mode
- "Rest mode" function
- Green charge status display LED
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

**Batteries**

- High-temperature cells
  - NiCd or NiMH batteries
  - D or Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current 1 h	25 mA
Mains current 3 h	35 mA
Rated power	< 7 W
Overvoltage protection	320 V (for 1 h)
Maximum operating voltage (U-OUT of the ECG)	460 V
Battery charging time	24 h
Discharge current	1.1 A
Charge current 1 h	100 mA
Charge current 3 h	200 mA
Leakage current (PE)	< 0.5 mA
Ambient temperature $t_a$	5 ... +60 °C
Max. casing temperature $t_c$	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency mode)	5 °C
Type of protection	IP20
Rest mode max. number of emergency units	100
Rest mode max. wiring distance	1,000 m

**Ordering data**

Type <sup>①</sup>	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 / 1 h</b>					
EM 14/24-4 T5 BASIC	89899822	4	25 pieces	475 pieces	0.197 kg
EM 21/28/49-5 T5 BASIC	89899823	5	25 pieces	475 pieces	0.197 kg
EM 39-5 T5 BASIC	89899824	5	25 pieces	475 pieces	0.197 kg
EM 35-6 T5 BASIC	89899825	6	25 pieces	475 pieces	0.197 kg
EM 54/80-6 T5 BASIC	89899826	6	25 pieces	475 pieces	0.197 kg

<sup>①</sup> Remove short-circuit connector and select the correct battery to switch to 1-hour operation.



Standards, page 297

Lamp matrix, page 298

Batteries, page 376

For wiring diagrams and installation examples see data sheet

RoHS

ACCES-  
SORIES

Test switch EM2

**Product description**

- For connection to the emergency lighting unit
- For checking the device function



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

Status indication green LED

**Product description**

- A green LED indicates that charging current is flowing into the battery



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg

**Ballast Lumen Factor (BLF) in %**

EM T5 BASIC for T5 fluorescent lamps, 3 or 1 h

	3 or 1 h	4 cells	5 cells		6 cells	
	Type	EM 14/24-4 T5 BASIC	EM 21/28/49-5 T5 BASIC	EM 39-5 T5 BASIC	EM 35-6 T5 BASIC	EM 54/80-6 T5 BASIC
	Article no.	89899822	89899823	89899824	89899825	89899826
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time				
T5 FH	14 W	21				
	21 W		12			
	28 W		12			
	35 W				13	
T5 FQ	24 W	14				
	39 W			7		
	49 W		7			
	54 W					6.5
	80 W					4.5

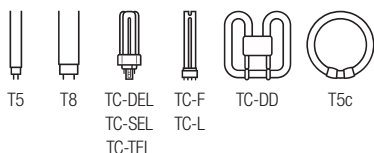
Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries			
NiCd 1.6 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692	•			
	Side by side	4	Accu-NiCd C 4B	89899693	•			
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694	•			
	Stick	5	Accu-NiCd C 5A	89899695		•	•	
	Side by side	5	Accu-NiCd C 5B	89899696		•	•	
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697		•	•	
	Stick	6	Accu-NiCd C 6A	89899698			•	•
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699			•	•
NiCd 4 Ah D-cells	Stick	4	Accu-NiCd 4A 55	89800089	•			
	Side by side	4	Accu-NiCd 4B	89895977	•			
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•			
	Stick	5	Accu-NiCd 5A	89895973		•	•	
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090		•	•	
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963			•	•
NiMH 2 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700	•			
	Stick	5	Accu-NiMH C 5A	89899703		•	•	
	Stick	6	Accu-NiMH C 6A	89899706			•	•
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707			•	•
NiMH 4 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•			
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•	•	
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852			•	•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853			•	•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

For 3-hour operation: 4 Ah D-cells NiCd or 4 Ah Cs-cells NiMH.

For 1-hour operation: 1.6 Ah Cs-cells NiCd or 2 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.



**EM BASIC Ip-2, 220 – 240 V 50/60 Hz**  
BASIC version

**Product description**

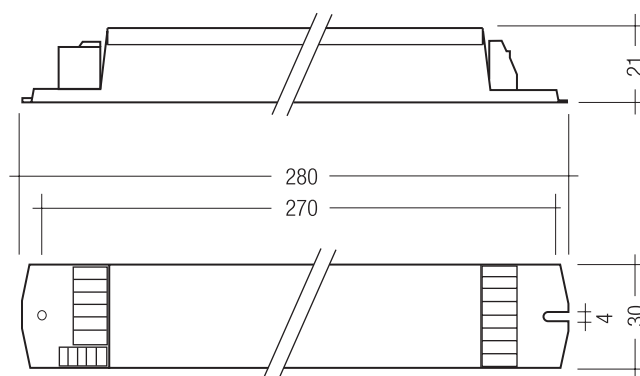
- Emergency lighting supply unit for manual testing
- For linear and compact fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)

**Properties**

- 1 or 3 h rated duration
- Compatible with all electronic ballasts (dimnable and non-dimnable)
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- High-frequency ac operation of the lamp
- Lamp warm start in emergency mode
- Gentle on the lamp thanks to permanent cathode heating in emergency mode
- 5.5 min. Boost start for rapid heating of the lamp, more light in the startup phase and optimum lamp life
- Maximum ballast lumen factors (BLF) for all lamps
- Green charge status display LED
- Electronic multi-level charge system
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

**Batteries**

- High-temperature cells
  - NiCd or NiMH batteries
  - D or Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	60 mA
Rated power	< 10 W
Overvoltage protection	320 V (for 1 h)
Maximum operating voltage (U-OUT of the ECG)	460 V
Battery charging time	15 h
Battery charging time 3 / 1 h	15 / 10 h
Discharge current	1.1 A
Leakage current (PE)	0.5 mA
Ambient temperature $t_a$	-5 ... +60 °C
Max. casing temperature $t_c$	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency mode)	-5 °C
Type of protection	IP20

**Ordering data**

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 h, Standard BLF</b>					
EM 34 BASIC Ip-2	89800037	4	25 pieces	475 pieces	0.229 kg
EM 35 BASIC Ip-2	89800038	5	25 pieces	475 pieces	0.229 kg
EM 36 BASIC Ip-2	89800039	6	25 pieces	475 pieces	0.229 kg
<b>Rated operating time 1 h, Standard BLF</b>					
EM 14 BASIC Ip-2	89800040	4	25 pieces	475 pieces	0.229 kg
EM 15 BASIC Ip-2	89800041	5	25 pieces	475 pieces	0.229 kg
EM 16 BASIC Ip-2	89800042	6	25 pieces	475 pieces	0.229 kg



Standards, page 297

Lamp matrix, page 298

Batteries, page 376

For wiring diagrams and installation examples see data sheet

Specific technical data

Type	Battery charging time	Charge current		
		Initial charge	Fast charge	Trickle charge
<b>Rated operating time 3 h, Standard BLF</b>				
EM 34 BASIC Ip-2	15 h	330 mA	330 mA	130 mA
EM 35 BASIC Ip-2	15 h	330 mA	330 mA	130 mA
EM 36 BASIC Ip-2	15 h	330 mA	330 mA	130 mA
<b>Rated operating time 1 h, Standard BLF</b>				
EM 14 BASIC Ip-2	10 h	130 mA	210 mA	50 mA
EM 15 BASIC Ip-2	10 h	130 mA	210 mA	50 mA
EM 16 BASIC Ip-2	10 h	130 mA	210 mA	50 mA

RoHS

ACCES-  
SORIES

Test switch EM2



Product description

- For connection to the emergency lighting unit
- For checking the device function

Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

Status indication green LED



Product description

- A green LED indicates that charging current is flowing into the battery

Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg



Ballast Lumen Factor (BLF) in %

EM BASIC Ip-2 for compact lamps, 3 or 1 h

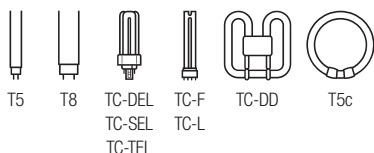
	Duration	3 h			Standard 1 h		
		4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
Type		EM 34 BASIC Ip-2	EM 35 BASIC Ip-2	EM 36 BASIC Ip-2	EM 14 BASIC Ip-2	EM 15 BASIC Ip-2	EM 16 BASIC Ip-2
Article no.		89800037	89800038	89800039	89800040	89800041	89800042
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time					
TC-DD	10 W	33			33		
	16 W	24			24		
	21 W	17			17		
	28 W	14			14		
	38 W			7.5			6.5
	55 W			5.2			4.2
TC-SEL	7 W	24			24		
	9 W	28			28		
	11 W	31			31		
TC-DEL	10 W	30			30		
	13 W	26			26		
	18 W	17			17		
	26 W	14.4			14.4		
TC-TEL ②	13 W	26.0			26.0		
	18 W	17.5 / 16.0	/ 20.5 (GE)		17.5 / 16.0	/ 20.5 (GE)	
	26 W	11.5 / 10.4	/ 15	/ 14.0	11.5 / 10.4	/ 15	/ 14.0
	32 W		14 / 5.6	/ 8.0		14 / 5.6	/ 8.0
	42 W			7.4 / 7.3			7.4 / 7.3
	57 W			5.1 / 5.2			5.1 / 5.2
T5c	22 W	13.5			13.5		
	40 W			6.5			6.5
	55 W			5.4			5.4
TC-F	18 W	18			18		
	24 W		21			21	
	36 W		13			13	
TC-L	18 W	18			18		
	24 W		17			17	
	36 W		12			12	
	40 W		8.8			8.8	
	55 W			4.5			4.5

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries		
NiCd 1.6 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692	•		
	Side by side	4	Accu-NiCd C 4B	89899693	•		
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694	•		
	Stick	5	Accu-NiCd C 5A	89899695		•	
	Side by side	5	Accu-NiCd C 5B	89899696		•	
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697		•	
	Stick	6	Accu-NiCd C 6A	89899698			•
NiCd 4 Ah D-cells	Stick	4	Accu-NiCd 4A 55	89800089	•		
	Side by side	4	Accu-NiCd 4B	89895977	•		
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•		
	Stick	5	Accu-NiCd 5A	89895973		•	
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090		•	
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963		•	
NiMH 2 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700		•	
	Stick	5	Accu-NiMH C 5A	89899703		•	
	Stick	6	Accu-NiMH C 6A	89899706			•
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707			•
NiMH 4 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•		
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•	
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852		•	
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853		•	

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① Maximum battery housing temperature 50 °C.

② The 1st value relates to non-amalgam lamps; the 2nd value relates to amalgam lamps (e.g. 14 / 9.5).



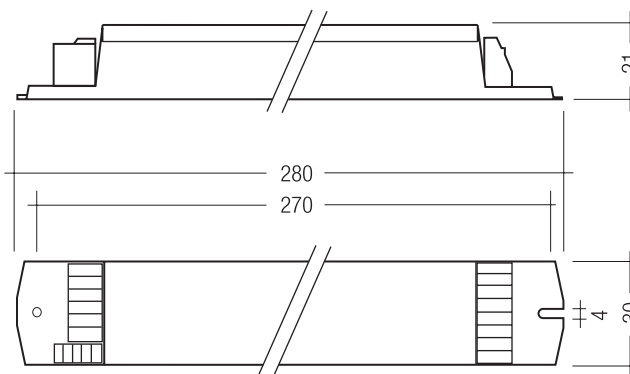
### EM SELFTEST, 220 – 240 V 50/60 Hz SELFTEST version

#### Product description

- Emergency lighting supply unit with selftest function
- For linear and compact fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)

#### Properties

- Selftest as per IEC 62034
- 1 or 3 h rated duration
- Compatible with all electronic ballasts (dimnable and non-dimnable)
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- High-frequency ac operation of the lamp
- Power control technology ensures maximum emergency ballast lumen factors for all lamps on a given module
- Lamp warm start in emergency mode
- Gentle on the lamp thanks to permanent cathode heating in emergency mode
- 5.5 min. Boost start for rapid heating of the lamp, more light in the startup phase and optimum lamp life
- Standard and high ballast lumen factor for 1-hour types
- Electronic multi-level charge system
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery
- “Rest mode” function
- Simple set-up
- Automatic function and service life test at a risk-free time
- Two-colour status display LED
- Selftest:
  - Status of the battery
  - Status of the lamp
  - Charge condition
  - Function test
  - Service life test



#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	60 mA, max.
Rated power	< 10 W
Overvoltage protection	320 V (for 1 h)
Maximum operating voltage (U-OUT of the ECG)	460 V
Battery charging time 3 / 1 h	15 / 10 h
Discharge current, Standard BLF	1.1 A
Discharge current, High Output BLF	2.2 A
Leakage current (PE)	< 0.5 mA
Ambient temperature $t_a$	-5 ... +60 °C
Max. casing temperature $t_c$	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency mode)	-5 °C
Type of protection	IP20
Rest mode max. number of emergency units	100
Rest mode max. wiring distance	1,000 m



**Batteries**

- High-temperature cells
  - NiCd or NiMH batteries
  - D or Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



**Standards**, page 297

**Lamp matrix**, page 298

**Batteries**, page 376

For wiring diagrams and installation examples see data sheet

**Ordering data**

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 h, Standard BLF</b>					
EM 34 ST	89899680	4	25 pieces	475 pieces	0.229 kg
EM 35 ST	89899681	5	25 pieces	475 pieces	0.229 kg
EM 36 ST	89899682	6	25 pieces	475 pieces	0.229 kg
<b>Rated operating time 1 h, Standard BLF</b>					
EM 14 ST	89899683	4	25 pieces	475 pieces	0.229 kg
EM 15 ST	89899684	5	25 pieces	475 pieces	0.229 kg
EM 16 ST	89899685	6	25 pieces	475 pieces	0.229 kg
<b>Rated operating time 1 h, High Output BLF</b>					
EM 14 HO ST	89899686	4	25 pieces	475 pieces	0.229 kg
EM 15 HO ST	89899687	5	25 pieces	475 pieces	0.229 kg
EM 16 HO ST	89899688	6	25 pieces	475 pieces	0.229 kg

**Specific technical data**

Type	Battery charge time	Charge current		
		Initial charge	Fast charge	Trickle charge
<b>Rated operating time 3 h, Standard BLF</b>				
EM 34 ST	15 h	330 mA	330 mA	130 mA
EM 35 ST	15 h	330 mA	330 mA	130 mA
EM 36 ST	15 h	330 mA	330 mA	130 mA
<b>Rated operating time 1 h, Standard BLF</b>				
EM 14 ST	10 h	130 mA	210 mA	50 mA
EM 15 ST	10 h	130 mA	210 mA	50 mA
EM 16 ST	10 h	130 mA	210 mA	50 mA
<b>Rated operating time 1 h, High Output BLF</b>				
EM 14 HO ST	15 h	330 mA	330 mA	130 mA
EM 15 HO ST	15 h	330 mA	330 mA	130 mA
EM 16 HO ST	15 h	330 mA	330 mA	130 mA

RoHS

ACCES-  
SORIES

Test switch EM2

**Product description**

- For connection to the emergency lighting unit
- For checking the device function



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

Status indication bi-colour LED

**Product description**

- Two-colour status display LED
- Green: system OK, red: fault



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM bi-colour	89899720	25 pieces	200 pieces	0.017 kg
LED EM bi-colour, high brightness	89899753	25 pieces	200 pieces	0.013 kg

Ballast Lumen Factor (BLF) in %

EM SELFTTEST for linear lamps, 3 or 1 h

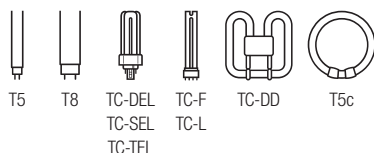
	Duration	3 h			Standard 1 h			High Output 1 h		
		4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells
Type	EM 34 ST	EM 35 ST	EM 36 ST	EM 14 ST	EM 15 ST	EM 16 ST	EM 14 HO ST	EM 15 HO ST	EM 16 HO ST	
Article no.	89899680	89899681	89899682	89899683	89899684	89899685	89899686	89899687	89899688	
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time								
T5	6 W	39			39			70		
	8 W	40			40			68		
	13 W	24			24			55		
T5 FH	14 W	24			24			47		
	21 W		18			18			43	
	28 W			15			15			39
	35 W			11			11			30
T5 FQ	24 W	13.5			13.5			29		
	39 W			8.2			8.2			30
	49 W			6.7			6.7			20
	54 W			5.3			5.3			23
	80 W			4.6			4.6			14
T8	15 W	18			18			36		
	18 W	18			18			36		
	30 W	11			11			24		
	36 W	9.5			9.5			20		
	38 W		12			12				
	58 W		7.5			7.5			17	
	70 W			4.5			4.5			

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries						
NiCd 1.6 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692				•			
	Side by side	4	Accu-NiCd C 4B	89899693				•			
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694				•			
	Stick	5	Accu-NiCd C 5A	89899695					•		
	Side by side	5	Accu-NiCd C 5B	89899696					•		
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697					•		
	Stick	6	Accu-NiCd C 6A	89899698						•	
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699						•	
NiCd 4 Ah D-cells	Stick	4	Accu-NiCd 4A 55	89800089	•					•	
	Side by side	4	Accu-NiCd 4B	89895977	•					•	
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•					•	
	Stick	5	Accu-NiCd 5A	89895973		•					•
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090		•					•
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963			•				•
NiMH 2 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700				•			
	Stick	5	Accu-NiMH C 5A	89899703					•		
	Stick	6	Accu-NiMH C 6A	89899706						•	
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707						•	
NiMH 4 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•					•	
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851		•					•
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852			•				•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853			•				•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① Maximum battery housing temperature 50 °C.





**EM PRO EZ-3, 220 – 240 V 50/60 Hz**  
PRO version

**Product description**

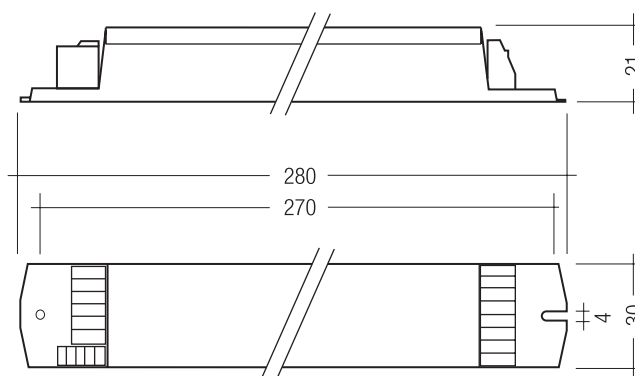
- Emergency lighting supply unit with DALI interface and automatic test function
- For linear and compact fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)

**Properties**

- DALI interface for testing and feedback
- 1 or 3 h rated duration
- Compatible with all electronic ballasts (dimmable and non-dimmable)
- 5-pole technology: 4-pole lamp changeover and delayed power switching for the ballast
- High-frequency ac operation of the lamp
- Power control technology ensures maximum emergency ballast lumen factors for all lamps on a given module
- Gentle on the lamp thanks to permanent cathode heating in emergency mode
- 5.5 min. Boost start for rapid heating of the lamp, more light in the startup phase and optimum lamp life
- Standard and high ballast lumen factor for 1-hour types
- Electronic multi-level charge system
- “Rest mode” function
- Addressing function, patented (“EZ easy addressing”)
- EZ addressing tool can be supplied
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery
- Two-colour status display LED
- Maximum ballast lumen factors (BLF) for all lamps

**Tests:**

- Status of the battery
- Status of the lamp
- Charge status
- Function test
- Service life test



**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	60 mA
Rated power	< 10 W
Overvoltage protection	320 V (for 1 h)
Maximum operating voltage (U-OUT of the ECG)	460 V
Battery charging time 3 / 1 h	15 / 10 h
Discharge current, Standard BLF	1.1 A
Discharge current, High Output BLF	2.2 A
Leakage current (PE)	0.5 mA
Ambient temperature $t_a$	-5 ... +60 °C
Max. casing temperature $t_c$	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Min. lamp starting temperature (emergency mode)	-5 °C
Type of protection	IP20

- Batteries

- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells
- Blade terminals for simple connection

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



Standards, page 297

Lamp matrix, page 298

Batteries, page 376

For wiring diagrams and installation examples see data sheet

## Ordering data

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 h, Standard BLF</b>					
EM 34 PRO EZ-3	89800022	4	25 pieces	475 pieces	0.229 kg
EM 35 PRO EZ-3	89800023	5	25 pieces	475 pieces	0.229 kg
EM 36 PRO EZ-3	89800024	6	25 pieces	475 pieces	0.229 kg
<b>Rated operating time 1 h, Standard BLF</b>					
EM 14 PRO EZ-3	89800025	4	25 pieces	475 pieces	0.229 kg
EM 15 PRO EZ-3	89800026	5	25 pieces	475 pieces	0.229 kg
EM 16 PRO EZ-3	89800027	6	25 pieces	475 pieces	0.229 kg
<b>Rated operating time 1 h, High Output BLF</b>					
EM 14 HO PRO EZ-3	89800019	4	25 pieces	475 pieces	0.228 kg
EM 15 HO PRO EZ-3	89800020	5	25 pieces	475 pieces	0.232 kg
EM 16 HO PRO EZ-3	89800021	6	25 pieces	475 pieces	0.229 kg

## Specific technical data

Type	Battery charge time	Charge current		
		Initial charge	Fast charge	Trickle charge
<b>Rated operating time 3 h, Standard BLF</b>				
EM 34 PRO EZ-3	15 h	330 mA	330 mA	130 mA
EM 35 PRO EZ-3	15 h	330 mA	330 mA	130 mA
EM 36 PRO EZ-3	15 h	330 mA	330 mA	130 mA
<b>Rated operating time 1 h, Standard BLF</b>				
EM 14 PRO EZ-3	10 h	130 mA	210 mA	50 mA
EM 15 PRO EZ-3	10 h	130 mA	210 mA	50 mA
EM 16 PRO EZ-3	10 h	130 mA	210 mA	50 mA
<b>Rated operating time 1 h, High Output BLF</b>				
EM 14 HO PRO EZ-3	15 h	330 mA	330 mA	130 mA
EM 15 HO PRO EZ-3	15 h	330 mA	330 mA	130 mA
EM 16 HO PRO EZ-3	15 h	330 mA	330 mA	130 mA

RoHS

**Product description**

- For connection to the emergency lighting unit
- For checking the device function

ACCES-  
SORIES

**Test switch EM2**



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

**Product description**

- Two-colour status display LED
- Green: system OK, red: fault

ACCES-  
SORIES

**Status indication bi-colour LED**



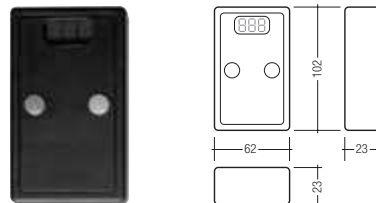
**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM bi-colour	89899720	25 pieces	200 pieces	0.017 kg
LED EM bi-colour, high brightness	89899753	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

**Addressing tool**



**Product description**

- Provides simple addressing for the EM PRO units
- Uses the bi-colour LED for device identification

**Ordering data**

Type	Article number	Weight per pcs.
EM PRO addressing tool	89899836	0.08 kg

Ballast Lumen Factor (BLF) in %

EM PRO EZ-3 for linear lamps, 3 or 1 h

	Duration	3 h			Standard 1 h			High Output 1 h		
		Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells
Type	EM 34 PRO EZ-3	EM 35 PRO EZ-3	EM 36 PRO EZ-3	EM 14 PRO EZ-3	EM 15 PRO EZ-3	EM 16 PRO EZ-3	EM 14 HO PRO EZ-3	EM 15 HO PRO EZ-3	EM 16 HO PRO EZ-3	
Article no.	89800022	89800023	89800024	89800025	89800026	89800027	89800019	89800020	89800021	
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time								
T5	6 W	39			39			70		
	8 W	40			40			68		
	13 W	24			24			55		
T5 FH	14 W	24			24			47		
	21 W		18			18			43	
	28 W			15			15			39
T5 FQ	35 W			11			11			30
	24 W	13.5			13.5			29		
	39 W			8.2			8.2			30
T5 FQ	49 W			6.7			6.7			20
	54 W			5.3			5.3			23
	80 W			4.6			4.6			14
T8	15 W	18			18			36		
	18 W	18			18			36		
	30 W	11			11			24		
	36 W	9.5			9.5			20		
	38 W		12			12				
	58 W		7.5			7.5			17	
	70 W			4.5			4.5			

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries															
NiCd 1.6 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692																
	Side by side	4	Accu-NiCd C 4B	89899693																
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694																
	Stick	5	Accu-NiCd C 5A	89899695																
	Side by side	5	Accu-NiCd C 5B	89899696																
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697																
	Stick	6	Accu-NiCd C 6A	89899698																
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699																
NiCd 4 Ah D-cells	Stick	4	Accu-NiCd 4A 55	89800089																
	Side by side	4	Accu-NiCd 4B	89895977																
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978																
	Stick	5	Accu-NiCd 5A	89895973																
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090																
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963																
NiMH 2 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700																
	Stick	5	Accu-NiMH C 5A	89899703																
	Stick	6	Accu-NiMH C 6A	89899706																
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707																
NiMH 4 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850																
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851																
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852																
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853																

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① Maximum battery housing temperature 50 °C.



Ballast Lumen Factor (BLF) in %

EM PRO EZ-3 for compact lamps, 3 or 1 h

Duration	3 h			Standard 1 h			High Output 1 h		
	Cells	4 cells	5 cells	6 cells	4 cells	5 cells	6 cells	4 cells	5 cells
Type	EM 34 PRO EZ-3	EM 35 PRO EZ-3	EM 36 PRO EZ-3	EM 14 PRO EZ-3	EM 15 PRO EZ-3	EM 16 PRO EZ-3	EM 14 HO PRO EZ-3	EM 15 HO PRO EZ-3	EM 16 HO PRO EZ-3
Article no.	89800022	89800023	89800024	89800025	89800026	89800027	89800019	89800020	89800021
Lamp type	Wattage								
	BLF in emergency lighting mode in % for rated operating time								
TC-DD	10 W	33			33				
	16 W	24			24				
	21 W	17			17				
	28 W	14			14				
	38 W			7.5			7.5		
	55 W			5.2			5.2		
TC-SEL	7 W	24			24			54	
	9 W	28			28			45	
	11 W	31			31			57	
TC-DEL	10 W	30			30			44	
	13 W	26			26			46	
	18 W	17			17			36	
	26 W	14.4			14.4			28	
TC-TEL ②	13 W	26			26				
	18 W	17.5 / 16.0 / 20.5 (GE)			17.5 / 16.0 / 20.5 (GE)			32 / 30	
	26 W	11.5 / 10.4 / 15	/ 14.0		11.5 / 10.4 / 15 / 14.0			23 / 26	
	32 W		14 / 5.6 / 8.0			14 / 5.6 / 8.0			21 / 21
	42 W			7.4 / 7.3			7.4 / 7.3		18 / 19
	57 W			5.1 / 5.2			5.1 / 5.2		17.5 / 16.5
T5c	22 W	13.5			13.5			28	
	40 W			6.5			6.5		26
	55 W			5.4			5.4		21
TC-F	18 W	18			18			33	
	24 W		21			21			34
	36 W		13			13			25
TC-L	18 W	18			18			30	
	24 W		17			17			34
	36 W		12			12			24
	40 W		8.8			8.8			23
	55 W			4.5			4.5		19

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries				
NiCd 1.6 Ah Cs-cells	Stick	4	Accu-NiCd C 4A	89899692					•
	Side by side	4	Accu-NiCd C 4B	89899693					•
	Stick + Stick	2 + 2	Accu-NiCd C 4C	89899694					•
	Stick	5	Accu-NiCd C 5A	89899695					•
	Side by side	5	Accu-NiCd C 5B	89899696					•
	Stick + Stick	3 + 2	Accu-NiCd C 5C	89899697					•
	Stick	6	Accu-NiCd C 6A	89899698					•
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699					•
NiCd 4 Ah D-cells	Stick	4	Accu-NiCd 4A 55	89800089	•				•
	Side by side	4	Accu-NiCd 4B	89895977	•				•
	Stick + Stick	2 + 2	Accu-NiCd 4C	89895978	•				•
	Stick	5	Accu-NiCd 5A	89895973					•
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090					•
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963					•
NiMH 2 Ah Cs-cells	Stick	4	Accu-NiMH C 4A	89899700					•
	Stick	5	Accu-NiMH C 5A	89899703					•
	Stick	6	Accu-NiMH C 6A	89899706					•
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707					•
NiMH 4 Ah Cs-cells ①	Stick	4	Accu-NiMH 4 Ah C 4A	89899850	•				•
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851					•
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852					•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853					•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① Maximum battery housing temperature 50 °C.

② The 1st value relates to non-amalgam lamps; the 2nd value relates to amalgam lamps (e.g. 14 / 9.5).



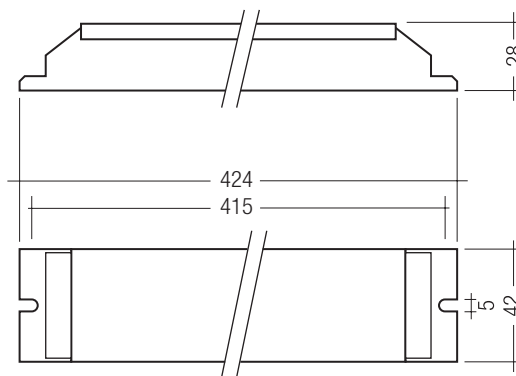
**PC COMBO, 220 – 240 V 50/60 Hz**  
Linear fluorescent lamps

**Product description**

- Combination of electronic ballast and emergency lighting unit
- For T5 and T8 fluorescent lamps
- For manual testing of the emergency lighting function

**Properties**

- Lightweight one-part emergency lighting unit
- For 1, 2, 3 or 4-lamp luminaires
- Simple wiring
- No compatibility problems
- 1 or 3 h rated duration
- Lamp warm start in normal operation
- IDC (insulation displacement connection)
- Green charge status display LED
- Checking the emergency lighting function by interrupting the unswitched phase
- Optional test switch
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery



**Batteries**

- High-temperature cells
  - NiCd or NiMH batteries
  - D or Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Standards, page 297

Lamp matrix, page 300

Batteries, page 376

For wiring diagrams and installation examples see data sheet

**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
tc point max.	70 °C
Ambient temperature ta	0 ... 50 °C
Operating frequency	> 30 kHz
Battery charging time	24 h
Charge current	210 mA
Discharge current 1 h	2.4 A
Discharge current 3 h	1.1 A
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency mode)	0 °C
Type of protection	IP20

**Ordering data**

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 h</b>					
PC 1x36-33 COMBO	89805250	3	25 pieces	700 pieces	0.440 kg
PC 2x36-33 COMBO	89805268	3	25 pieces	700 pieces	0.440 kg
PC 1x58-34 COMBO	89805270	4	25 pieces	700 pieces	0.440 kg
PC 2 x 58-34 COMBO	89805272	4	25 pieces	700 pieces	0.440 kg
PC 3/4x18-33 COMBO	89818236	3	25 pieces	350 pieces	0.445 kg
PC 3/4x14-33 T5 COMBO	89800002	3	25 pieces	700 pieces	0.445 kg
PC 3/4x24-34 T5 COMBO	89899878	4	25 pieces	475 pieces	0.430 kg
<b>Rated operating time 1 h</b>					
PC 3/4x14-13 T5 COMBO	89800003	3	25 pieces	700 pieces	0.445 kg

Specific technical data

Lamp type	Lamp wattage	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	Mains current	$\lambda$	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF <sup>®</sup>	Rated duration
<b>Rated operating time 3 h</b>													
T8	1 x 36 W	PC 1x36-33 COMBO	89805250	424 x 42 x 28 mm	415 mm	32.0 W	39 W	0.18 A	0.93	1	0.060	0.055	3 h
T8	2 x 36 W	PC 2x36-33 COMBO	89805268	424 x 42 x 28 mm	415 mm	64.0 W	75 W	0.35 A	0.96	1	0.060	0.055	3 h
T8	1 x 58 W	PC 1x58-34 COMBO	89805270	424 x 42 x 28 mm	415 mm	50.0 W	60 W	0.27 A	0.95	1	0.065	0.060	3 h
T8	2 x 58 W	PC 2 x 58-34 COMBO	89805272	424 x 42 x 28 mm	415 mm	100.0 W	115 W	0.51 A	0.96	1	0.065	0.060	3 h
T8	3 x 18 W	PC 3/4x18-33 COMBO	89818236	424 x 42 x 28 mm	415 mm	48.0 W	60 W	0.27 A	0.97	1	0.160	0.145	3 h
T8	4 x 18 W	PC 3/4x18-33 COMBO	89818236	424 x 42 x 28 mm	415 mm	72.0 W	79 W	0.35 A	0.97	1	0.160	0.145	3 h
T5	3 x 14 W	PC 3/4x14-33 T5 COMBO	89800002	424 x 42 x 28 mm	415 mm	42.0 W	52 W	0.23 A	0.97	1	0.170	0.160	3 h
T5	4 x 14 W	PC 3/4x14-33 T5 COMBO	89800002	424 x 42 x 28 mm	415 mm	56.0 W	67 W	0.30 A	0.98	1	0.170	0.160	3 h
T5	3 x 24 W	PC 3/4x24-34 T5 COMBO	89899878	424 x 42 x 28 mm	415 mm	67.5 W	75 W	0.34 A	0.97	1	0.160	0.140	3 h
T5	4 x 24 W	PC 3/4x24-34 T5 COMBO	89899878	424 x 42 x 28 mm	415 mm	90.0 W	100 W	0.45 A	0.97	1	0.160	0.140	3 h
<b>Rated operating time 1 h</b>													
T5	3 x 14 W	PC 3/4x14-13 T5 COMBO	89800003	424 x 42 x 28 mm	415 mm	42.0 W	52 W	0.23 A	0.97	1	0.280	0.250	1 h
T5	4 x 14 W	PC 3/4x14-13 T5 COMBO	89800003	424 x 42 x 28 mm	415 mm	56.0 W	67 W	0.30 A	0.98	1	0.280	0.250	1 h

<sup>®</sup> According to EN 61347-2-7: 2006.

RoHS

ACCES-  
SORIES

Test switch EM2



Product description

- For connection to the emergency lighting unit
- For checking the device function

Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

Status indication green LED



Product description

- A green LED indicates that charging current is flowing into the battery

Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg

**Ballast Lumen Factor (BLF) in %**

PC COMBO for T5 and T8 fluorescent lamps, 3 or 1 h

Duration	3 h								1 h
	3 cells	3 cells	4 cells	4 cells	3 cells	3 cells	4 cells	3 cells	
Type	PC 1x36-33 COMBO	PC 2x36-33 COMBO	PC 1x58-34 COMBO	PC 2x58-34 COMBO	PC 3/4x18-33 COMBO	PC 3/4x14-33 T5 COMBO	PC 3/4x24-34 T5 COMBO	PC 3/4x14-13 T5 COMBO	
Article no.	89805250	89805268	89805270	89805272	89818236	89800002	89899878	89800003	
Lamp type	Wattage								
	BLF in emergency lighting mode in % for rated operating time								
T8	18 W					16			
	36 W	6	6						
	58 W			6.5	6.5				
T5	14 W						17		28
	24 W							16	

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries							
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•			•	•		•
	Stick	4	Accu-NiCd 4A 55	89800089			•	•			•	
NiMH 4 Ah Cs-cells ①	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•	•			•	•		•
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850			•	•			•	

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① Maximum battery housing temperature 45 °C.



**PC T5 COMBO Ip, 220 – 240 V 50/60 Hz**  
Linear fluorescent lamps

**Product description**

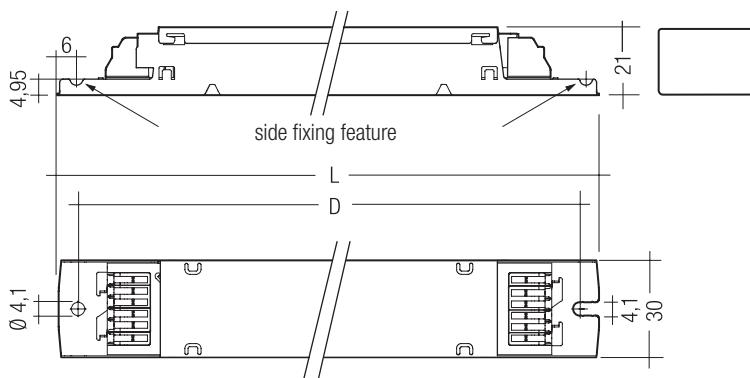
- Combination of electronic ballast and emergency lighting unit
- For T5 fluorescent lamps
- Low-profile casing (21 x 30 mm cross-section)
- For manual testing of the emergency lighting function

**Properties**

- Lightweight one-part emergency lighting unit
- Simple wiring
- No compatibility problems
- 1 or 3 h rated duration
- Selectable operating time (jumper)
- Lamp warm start in normal operation
- Cathode heating in emergency mode
- AC operation of all lamps
- Automatic restart after relamping in normal operation
- Green charge status display LED
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optional test switch
- Checking the emergency lighting function by interrupting the unswitched phase
- IDC (insulation displacement connection)
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

**Batteries**

- High-temperature cells
  - NiCd or NiMH batteries
  - D or Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
Start time	~ 1.6 s
tc point max.	70 °C
tc point (PC 2x54-6 T5 COMBO Ip)	75 °C
Ambient temperature ta	0 ... 55 °C
Operating frequency (normal operation)	40 – 50 kHz
Operating frequency (emergency mode)	20 – 30 kHz
Overvoltage protection	320 V (for 1 h)
Battery charging time	24 h
Charge current 1 h	105 mA
Charge current 3 h	210 mA
Discharge current	1.1 A
Leakage current (PE)	< 0.5 mA
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency mode)	0 °C
Type of protection	IP20



Standards, page 297

Lamp matrix, page 300

Batteries, page 376

For wiring diagrams and installation examples see data sheet

## Ordering data

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 / 1 h</b>					
PC 1x14-3 T5 COMBO Ip	89899875	3	25 pieces	475 pieces	0.229 kg
PC 2x14-3 T5 COMBO Ip	89899876	3	25 pieces	475 pieces	0.229 kg
PC 1x21/28-5 T5 COMBO Ip	89899881	5	25 pieces	475 pieces	0.229 kg
PC 2x21/28-5 T5 COMBO Ip	89899882	5	25 pieces	475 pieces	0.229 kg
PC 1x24-4 T5 COMBO Ip	89899879	4	25 pieces	475 pieces	0.229 kg
PC 2x24-4 T5 COMBO Ip	89899880	4	25 pieces	475 pieces	0.229 kg
PC 1x35-6 T5 COMBO Ip	89899885	6	25 pieces	475 pieces	0.229 kg
PC 2x35-6 T5 COMBO Ip	89899886	6	25 pieces	475 pieces	0.229 kg
PC 1x39-5 T5 COMBO Ip	89899883	5	25 pieces	475 pieces	0.229 kg
PC 2x39-5 T5 COMBO Ip	89899884	5	25 pieces	475 pieces	0.229 kg
PC 1x49-5 T5 COMBO Ip	89899887	5	25 pieces	475 pieces	0.229 kg
PC 2x49-5 T5 COMBO Ip	89899888	5	25 pieces	475 pieces	0.340 kg
PC 1x54-6 T5 COMBO Ip	89899889	6	25 pieces	475 pieces	0.229 kg
PC 2x54-6 T5 COMBO Ip	89899890	6	25 pieces	475 pieces	0.229 kg
PC 1x80-6 T5 COMBO Ip	89899891	6	25 pieces	475 pieces	0.229 kg

## Specific technical data

Lamp type	Lamp wattage	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	Mains current	$\lambda$	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF®	Rated duration
<b>Rated operating time 3 / 1 h</b>													
T5	1 x 14 W	PC 1x14-3 T5 COMBO Ip	89899875	425 x 30 x 21 mm	415 mm	14.4 W	19.4 W	0.090 A	0.96	1	0.170	0.170	3 / 1 h
T5	2 x 14 W	PC 2x14-3 T5 COMBO Ip	89899876	425 x 30 x 21 mm	415 mm	28.8 W	35.0 W	0.160 A	0.95	1	0.170	0.170	3 / 1 h
T5	1 x 21 W	PC 1x21/28-5 T5 COMBO Ip	89899881	425 x 30 x 21 mm	415 mm	20.5 W	28.8 W	0.130 A	0.95	1	0.120	0.115	3 / 1 h
T5	1 x 28 W	PC 1x21/28-5 T5 COMBO Ip	89899881	425 x 30 x 21 mm	415 mm	27.9 W	35.9 W	0.160 A	0.97	1	0.120	0.095	3 / 1 h
T5	2 x 21 W	PC 2x21/28-5 T5 COMBO Ip	89899882	425 x 30 x 21 mm	415 mm	40.9 W	50.0 W	0.225 A	0.97	1	0.120	0.110	3 / 1 h
T5	2 x 28 W	PC 2x21/28-5 T5 COMBO Ip	89899882	425 x 30 x 21 mm	415 mm	55.8 W	66.5 W	0.295 A	0.98	1	0.120	0.095	3 / 1 h
T5	1 x 24 W	PC 1x24-4 T5 COMBO Ip	89899879	425 x 30 x 21 mm	415 mm	22.2 W	29.9 W	0.135 A	0.95	1	0.130	0.127	3 / 1 h
T5	2 x 24 W	PC 2x24-4 T5 COMBO Ip	89899880	425 x 30 x 21 mm	415 mm	43.0 W	54.7 W	0.245 A	0.97	1	0.130	0.127	3 / 1 h
T5	1 x 35 W	PC 1x35-6 T5 COMBO Ip	89899885	425 x 30 x 21 mm	415 mm	35.7 W	44.5 W	0.200 A	0.98	1	0.130	0.075	3 / 1 h
T5	2 x 35 W	PC 2x35-6 T5 COMBO Ip	89899886	425 x 30 x 21 mm	415 mm	71.4 W	84.4 W	0.370 A	0.98	1	0.130	0.075	3 / 1 h
T5	1 x 39 W	PC 1x39-5 T5 COMBO Ip	89899883	425 x 30 x 21 mm	415 mm	40.0 W	47.0 W	0.210 A	0.97	1	0.070	0.065	3 / 1 h
T5	2 x 39 W	PC 2x39-5 T5 COMBO Ip	89899884	425 x 30 x 21 mm	415 mm	77.0 W	88.0 W	0.390 A	0.98	1	0.070	0.065	3 / 1 h
T5	1 x 49 W	PC 1x49-5 T5 COMBO Ip	89899887	425 x 30 x 21 mm	415 mm	50.0 W	58.2 W	0.260 A	0.98	1	0.060	0.050	3 / 1 h
T5	2 x 49 W	PC 2x49-5 T5 COMBO Ip	89899888	425 x 30 x 21 mm	415 mm	101.4 W	112.0 W	0.500 A	0.99	1	0.070	0.050	3 / 1 h
T5	1 x 54 W	PC 1x54-6 T5 COMBO Ip	89899889	425 x 30 x 21 mm	415 mm	54.8 W	66.9 W	0.300 A	0.97	1	0.060	0.040	3 / 1 h
T5	2 x 54 W	PC 2x54-6 T5 COMBO Ip	89899890	425 x 30 x 21 mm	415 mm	105.0 W	120.3 W	0.530 A	0.99	1	0.060	0.040	3 / 1 h
T5	1 x 80 W	PC 1x80-6 T5 COMBO Ip	89899891	425 x 30 x 21 mm	415 mm	79.5 W	87.3 W	0.385 A	0.98	1	0.048	0.043	3 / 1 h

® According to EN 61347-2-7: 2006.

RoHS

**Product description**

- A green LED indicates that charging current is flowing into the battery

ACCES-  
SORIES

**Status indication green LED**



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg

RoHS

**Product description**

- For connection to the emergency lighting unit
- For checking the device function

ACCES-  
SORIES

**Test switch EM3**



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 3	89899956	25 pieces	200 pieces	0.013 kg

Ballast Lumen Factor (BLF) in %

PC T5 COMBO Ip for T5 fluorescent lamps, 3 or 1 h

Duration	3 or 1 h					
	3 cells	3 cells	5 cells	5 cells	4 cells	4 cells
Type	PC 1x14 – 3 T5 COMBO Ip	PC 2x14 – 3 T5 COMBO Ip	PC 1x21/28 – 5 T5 COMBO Ip	PC 2x21/28 – 5 T5 COMBO Ip	PC 1x24 – 4 T5 COMBO Ip	PC 2x24 – 4 T5 COMBO Ip
Article no.	89899875	89899876	89899881	89899882	89899879	89899880
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time				
T5	14 W	17	17			
	21 W			12	12	
	24 W					13
	28 W			12	12	
	35 W					
	39 W					
	49 W					
	54 W					
	80 W					

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries					
NiCd 1.6 Ah Cs-cells	Stick	3	Accu-NiCd C 3A	89899743	•	•				
	Stick	4	Accu-NiCd C 4A	89899692					•	•
	Stick	5	Accu-NiCd C 5A	89899695			•	•		
	Stick	6	Accu-NiCd C 6A	89899698						
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699						
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•				
	Stick	4	Accu-NiCd 4A 55	89800089					•	•
	Stick	5	Accu-NiCd 5A	89895973			•	•		
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090			•	•		
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963						
NiMH 2 Ah Cs-cells	Stick	3	Accu-NiMH C 3A	89899744	•	•				
	Stick	4	Accu-NiMH C 4A	89899700					•	•
	Stick	5	Accu-NiMH C 5A	89899703			•	•		
	Stick	6	Accu-NiMH C 6A	89899706						
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707						
NiMH 4 Ah Cs-cells ①	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•	•				
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850					•	•
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851			•	•		
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852						
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853						

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

For 3-hour operation: 4 Ah D-cells NiCd or 4 Ah Cs-cells NiMH.

For 1-hour operation: 1.6 Ah Cs-cells NiCd or 2 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.



**Ballast Lumen Factor (BLF) in %**

PC T5 COMBO Ip for T5 fluorescent lamps, 3 or 1 h

Duration	3 or 1 h				
	6 cells	6 cells	5 cells	5 cells	5 cells
Type	PC 1x35 – 6 T5 COMBO Ip	PC 2x35 – 6 T5 COMBO Ip	PC 1x39 – 5 T5 COMBO Ip	PC 2x39 – 5 T5 COMBO Ip	PC 1x49 – 5 T5 COMBO Ip
Article no.	89899885	89899886	89899883	89899884	89899887
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time			
T5	14 W				
	21 W				
	24 W				
	28 W				
	35 W	13	13		
	39 W			7	7
	49 W				6
	54 W				
	80 W				

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries				
NiCd 1.6 Ah Cs-cells	Stick	3	Accu-NiCd C 3A	89899743					
	Stick	4	Accu-NiCd C 4A	89899692					
	Stick	5	Accu-NiCd C 5A	89899695			•	•	•
	Stick	6	Accu-NiCd C 6A	89899698	•	•			
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699	•	•			
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960					
	Stick	4	Accu-NiCd 4A 55	89800089					
	Stick	5	Accu-NiCd 5A	89895973			•	•	•
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090			•	•	•
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963	•	•			
NiMH 2 Ah Cs-cells	Stick	3	Accu-NiMH C 3A	89899744					
	Stick	4	Accu-NiMH C 4A	89899700					
	Stick	5	Accu-NiMH C 5A	89899703			•	•	•
	Stick	6	Accu-NiMH C 6A	89899706	•	•			
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707	•	•			
NiMH 4 Ah Cs-cells ①	Stick	3	Accu-NiMH 4 Ah C 3A	89899854					
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850					
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851			•	•	•
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852	•	•			
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853	•	•			

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

For 3-hour operation: 4 Ah D-cells NiCd or 4 Ah Cs-cells NiMH.

For 1-hour operation: 1.6 Ah Cs-cells NiCd or 2 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.

## Ballast Lumen Factor (BLF) in %

PC T5 COMBO Ip for T5 fluorescent lamps, 3 or 1 h

Duration	3 or 1 h			
	5 cells	6 cells	6 cells	6 cells
Cells	PC 2x49 – 5 T5 COMBO Ip	PC 1x54 – 6 T5 COMBO Ip	PC 2x54 – 6 T5 COMBO Ip	PC 1x80 – 6 T5 COMBO Ip
Type	89899888	89899889	89899890	89899891
Article no.	BLF in emergency lighting mode in % for rated operating time			
Lamp type	Wattage			
T5	14 W			
	21 W			
	24 W			
	28 W			
	35 W			
	39 W			
	49 W	7		
	54 W		6	6
	80 W			4.8

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries			
NiCd 1.6 Ah Cs-cells	Stick	3	Accu-NiCd C 3A	89899743				
	Stick	4	Accu-NiCd C 4A	89899692				
	Stick	5	Accu-NiCd C 5A	89899695	•			
	Stick	6	Accu-NiCd C 6A	89899698		•	•	•
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699		•	•	•
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960				
	Stick	4	Accu-NiCd 4A 55	89800089				
	Stick	5	Accu-NiCd 5A	89895973	•			
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090	•			
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963		•	•	•
NiMH 2 Ah Cs-cells	Stick	3	Accu-NiMH C 3A	89899744				
	Stick	4	Accu-NiMH C 4A	89899700				
	Stick	5	Accu-NiMH C 5A	89899703	•			
	Stick	6	Accu-NiMH C 6A	89899706		•	•	•
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707		•	•	•
NiMH 4 Ah Cs-cells ①	Stick	3	Accu-NiMH 4 Ah C 3A	89899854				
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850				
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851	•			
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852		•	•	•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853		•	•	•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

For 3-hour operation: 4 Ah D-cells NiCd or 4 Ah Cs-cells NiMH.

For 1-hour operation: 1.6 Ah Cs-cells NiCd or 2 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.



**PC TC-L COMBO, 220 – 240 V 50/60 Hz**  
Compact fluorescent lamps

**Product description**

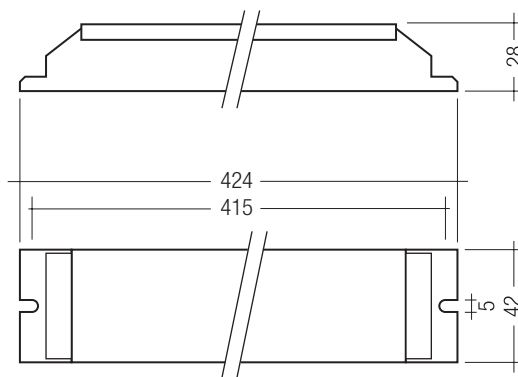
- Combination of electronic ballast and emergency lighting unit
- For TC-L compact fluorescent lamps
- For manual testing of the emergency lighting function

**Properties**

- Lightweight one-part emergency lighting unit
- Simple wiring
- No compatibility problems
- 3 h rated duration
- Lamp warm start in normal operation
- Automatic restart after relamping in normal operation
- Green charge status display LED
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Checking the emergency lighting function by interrupting the unswitched phase
- IDC terminals for automatic and manual wiring
- Optional test switch
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

**Batteries**

- High-temperature cells
  - NiCd or NiMH batteries
  - D or Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
Lamp starting time (normal operation)	< 1.5 s
tc point max.	70 °C
Ambient temperature ta	0 ... 50 °C
Operating frequency (normal operation)	40 – 50 kHz
Operating frequency (emergency mode)	20 – 30 kHz
Overvoltage protection	320 V (for 1 h)
Battery charging time	24 h
Charge current 3 h	210 mA
Discharge current 3 h	1.1 A
Leakage current (PE)	< 0.5 mA
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency mode)	0 °C
Type of protection	IP20

**Ordering data**

Type	Article number	Number of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 h</b>					
PC 1x36-33 TC-L COMBO	89899920	3	25 pieces	475 pieces	0.42 kg
PC 2x36-33 TC-L COMBO	89899921	3	25 pieces	475 pieces	0.42 kg
PC 1x40-34 TC-L COMBO	89899922	4	25 pieces	475 pieces	0.42 kg
PC 2x40-34 TC-L COMBO	89899923	4	25 pieces	475 pieces	0.42 kg
PC 1x55-35 TC-L COMBO	89899924	5	25 pieces	475 pieces	0.42 kg
PC 2x55-35 TC-L COMBO	89899925	5	25 pieces	475 pieces	0.42 kg



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Lamp matrix, page 300

Batteries, page 376

For wiring diagrams and installation examples see data sheet

### Specific technical data

Lamp type	Lamp wattage	Type	Number of cells	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	Mains current	$\lambda$	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF <sup>®</sup>
<b>Rated operating time 3 h</b>													
TC-L	1 x 36 W	PC 1x36-33 TC-L COMBO	3	89899920	424 x 42 x 28 mm	415 mm	32 W	38.5 W	0.17 A	0.97	1	0.051	0.040
TC-L	2 x 36 W	PC 2x36-33 TC-L COMBO	3	89899921	424 x 42 x 28 mm	415 mm	32 W	74.0 W	0.33 A	0.98	1	0.051	0.040
TC-L	1 x 40 W	PC 1x40-34 TC-L COMBO	4	89899922	424 x 42 x 28 mm	415 mm	40 W	46.0 W	0.20 A	0.97	1	0.061	0.040
TC-L	2 x 40 W	PC 2x40-34 TC-L COMBO	4	89899923	424 x 42 x 28 mm	415 mm	40 W	90.6 W	0.40 A	0.98	1	0.061	0.040
TC-L	1 x 55 W	PC 1x55-35 TC-L COMBO	5	89899924	424 x 42 x 28 mm	415 mm	55 W	65.0 W	0.29 A	0.97	1	0.085	0.075
TC-L	2 x 55 W	PC 2x55-35 TC-L COMBO	5	89899925	424 x 42 x 28 mm	415 mm	55 W	127.0 W	0.56 A	0.98	1	0.085	0.075

<sup>®</sup> According to EN 61347-2-7: 2006.

RoHS

ACCES-  
SORIES

### Test switch EM2

#### Product description

- For connection to the emergency lighting unit
- For checking the device function



#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

### Status indication green LED

#### Product description

- A green LED indicates that charging current is flowing into the battery



#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg

**Ballast Lumen Factor (BLF) in %**

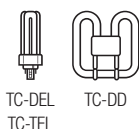
PC TC-L COMBO for compact lamps, 3 h

Duration	3 h					
	3 cells	3 cells	4 cells	4 cells	5 cells	5 cells
Cells	3 cells	3 cells	4 cells	4 cells	5 cells	5 cells
Type	PC 1x36-33 TC-L COMBO	PC 2x36-33 TC-L COMBO	PC 1x40-34 TC-L COMBO	PC 2x40-34 TC-L COMBO	PC 1x55-35 TC-L COMBO	PC 2x55-35 TC-L COMBO
Article no.	89899920	89899921	89899922	89899923	89899924	89899925
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time				
TC-L	36 W	5.1	5.1			
	40 W			6.1	6.1	
	55 W					8.5 8.5

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries					
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•				
	Stick	4	Accu-NiCd 4A 55	89800089			•	•		
	Stick	5	Accu-NiCd 5A	89895973					•	•
	Stick + Stick	3 + 2	Accu-NiCd 5B	89895962					•	•
NiMH 4 Ah Cs-cells ①	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•	•				
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850			•	•		
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851					•	•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

① Maximum battery housing temperature 45 °C.



PC CFL COMBO, 220 – 240 V 50/60 Hz  
Compact fluorescent lamps

**Product description**

- Combination of electronic ballast and emergency lighting unit
- For compact fluorescent lamps
- For manual testing of the emergency lighting function

**Properties**

- Lightweight one-part emergency lighting unit
- Simple wiring
- No compatibility problems
- 3 h rated duration for TC-DD lamp variants
- 1 and 3 h rated duration for TC-D/T lamp variants
- Selectable operating time (jumper)
- Lamp warm start in normal operation
- Filament heating in emergency operation for TC-D/T lamps
- AC operation of all lamps
- Automatic restart after relamping in normal operation
- Green charge status display LED
- Intelligent Voltage Guard (overvoltage indication and undervoltage shutdown)
- Optional test switch
- Checking the emergency lighting function by interrupting the unswitched phase
- Small dimensions
- IDC (insulation displacement connection)
- Electronically controlled battery charging
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery

**Batteries**

- Separate battery pack
- High-temperature cells
- NiCd or NiMH batteries
- D or Cs cells

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

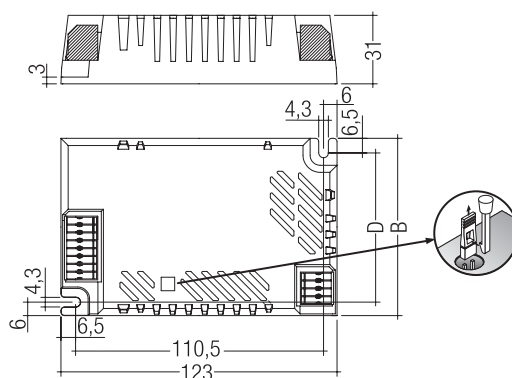


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For wiring diagrams and installation examples see data sheet



**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains voltage changeover threshold	according to EN 60598-2-22
tc point max.	75 °C
Ambient temperature $t_a$	0 ... 55 °C
Operating frequency (normal operation)	> 42 kHz
Operating frequency (emergency mode)	typ. 17 kHz
Overvoltage protection	320 V (for 1 h)
Battery charging time	24 h
Leakage current (PE)	< 0.5 mA
Min. lamp starting temperature (normal operation)	-15 °C
Min. lamp starting temperature (emergency mode)	0 °C
Type of protection	IP20

**Ordering data**

Type	Article number	Nuber of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 / 1 h</b>					
PC 1x18-3 TC COMBO	89899990	3	25 pieces	700 pieces	0.220 kg
PC 1x18-4 TC COMBO	89899927	4	25 pieces	700 pieces	0.220 kg
PC 2x18-3 TC COMBO	89899982	3	25 pieces	450 pieces	0.245 kg
PC 2x18-4 TC COMBO	89899928	4	25 pieces	450 pieces	0.245 kg
PC 1x26-3 TC COMBO	89899983	3	25 pieces	700 pieces	0.220 kg
PC 1x26-4 TC COMBO	89899976	4	25 pieces	700 pieces	0.220 kg
PC 2x26-3 TC COMBO	89899929	5	25 pieces	700 pieces	0.220 kg
PC 1x26/32/42-6 TC COMBO	89899931	6	25 pieces	700 pieces	0.220 kg
PC 2x26-3 TC COMBO	89899984	3	25 pieces	450 pieces	0.245 kg
PC 2x26-4 TC COMBO	89899930	4	25 pieces	450 pieces	0.245 kg
PC 2x26/32-5 TC COMBO	89899998	5	25 pieces	450 pieces	0.245 kg
PC 2x26/32/42-6 TC COMBO	89899989	6	25 pieces	450 pieces	0.245 kg

Ordering data

Type	Article number	Nuber of cells	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>Rated operating time 3 h, Low Output BLF</b>					
PC 1x28-33 LO DD COMBO	89899943	3	25 pieces	700 pieces	0.220 kg
PC 1x28-34 LO DD COMBO	89899955	4	25 pieces	700 pieces	0.220 kg
PC 1x38-34 LO DD COMBO	89899981	4	25 pieces	700 pieces	0.220 kg
<b>Rated operating time 3 h, High Output BLF</b>					
PC 1x16-33 HO DD COMBO	89899926	3	25 pieces	700 pieces	0.220 kg
PC 1x28-33 HO DD COMBO	89899957	3	25 pieces	700 pieces	0.220 kg
PC 1x28-34 HO DD COMBO	89899958	4	25 pieces	700 pieces	0.220 kg
PC 1x38-34 HO DD COMBO	89899933	4	25 pieces	700 pieces	0.220 kg
PC 1x38-35 HO DD COMBO	89899975	5	25 pieces	700 pieces	0.220 kg

Specific technical data

Lamp type <sup>①</sup>	Lamp wattage	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	Mains current <sup>②</sup>	$\lambda^{\text{③}}$	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF <sup>®</sup>	Rated duration
<b>Rated operating time 3 / 1 h</b>													
TC-DEL 1 x 18 W		PC 1x18-3 TC COMBO	89899990	123 x 79 x 31 mm	66.5 mm	16.5 W	22 W	0.100 A	0.96	1.00	0.110	0.090	3 / 1 h
TC-TEL 1 x 18 W		PC 1x18-3 TC COMBO	89899990	123 x 79 x 31 mm	66.5 mm	16.5 W	22 W	0.100 A	0.96	1.00	0.090	0.080	3 / 1 h
TC-DEL 1 x 18 W		PC 1x18-4 TC COMBO	89899927	123 x 79 x 31 mm	66.5 mm	16.5 W	24 W	0.110 A	0.96	1.00	0.190	0.175	3 / 1 h
TC-TEL 1 x 18 W		PC 1x18-4 TC COMBO	89899927	123 x 79 x 31 mm	66.5 mm	16.5 W	24 W	0.110 A	0.96	1.00	0.150	0.150	3 / 1 h
TC-DEL 2 x 18 W		PC 2x18-3 TC COMBO	89899982	123 x 102 x 31 mm	89.5 mm	34.0 W	40 W	0.180 A	0.97	1.00	0.110	0.090	3 / 1 h
TC-TEL 2 x 18 W		PC 2x18-3 TC COMBO	89899982	123 x 102 x 31 mm	89.5 mm	34.0 W	40 W	0.180 A	0.97	1.00	0.090	0.080	3 / 1 h
TC-DEL 2 x 18 W		PC 2x18-4 TC COMBO	89899928	123 x 102 x 31 mm	89.5 mm	33.0 W	43 W	0.190 A	0.97	1.00	0.190	0.175	3 / 1 h
TC-TEL 2 x 18 W		PC 2x18-4 TC COMBO	89899928	123 x 102 x 31 mm	89.5 mm	33.0 W	43 W	0.190 A	0.97	1.00	0.150	0.150	3 / 1 h
TC-DEL 1 x 26 W		PC 1x26-3 TC COMBO	89899983	123 x 79 x 31 mm	66.5 mm	24.0 W	28 W	0.130 A	0.95	1.00	0.095	0.080	3 / 1 h
TC-TEL 1 x 26 W		PC 1x26-3 TC COMBO	89899983	123 x 79 x 31 mm	66.5 mm	24.0 W	28 W	0.130 A	0.95	1.00	0.065	0.055	3 / 1 h
TC-DEL 1 x 26 W		PC 1x26-4 TC COMBO	89899976	123 x 79 x 31 mm	66.5 mm	24.0 W	30 W	0.140 A	0.95	1.00	0.085	0.095	3 / 1 h
TC-TEL 1 x 26 W		PC 1x26-4 TC COMBO	89899976	123 x 79 x 31 mm	66.5 mm	24.0 W	30 W	0.140 A	0.95	1.00	0.085	0.085	3 / 1 h
TC-DEL 1 x 26 W		PC 1x26/32-5 TC COMBO	89899929	123 x 79 x 31 mm	66.5 mm	24.0 W	30 W	0.140 A	0.95	1.00	0.140	0.105	3 / 1 h
TC-TEL 1 x 26 W		PC 1x26/32-5 TC COMBO	89899929	123 x 79 x 31 mm	66.5 mm	24.0 W	30 W	0.140 A	0.95	1.00	0.120	0.075	3 / 1 h
TC-TEL 1 x 32 W		PC 1x26/32-5 TC COMBO	89899929	123 x 79 x 31 mm	66.5 mm	32.0 W	38 W	0.170 A	0.97	1.00	0.070	0.035	3 / 1 h
TC-DEL 1 x 26 W		PC 1x26/32/42-6 TC COMBO	89899931	123 x 79 x 31 mm	66.5 mm	24.0 W	30 W	0.140 A	0.95	1.00	0.110	0.095	3 / 1 h
TC-TEL 1 x 26 W		PC 1x26/32/42-6 TC COMBO	89899931	123 x 79 x 31 mm	66.5 mm	24.0 W	30 W	0.140 A	0.95	1.00	0.080	0.080	3 / 1 h
TC-DEL 1 x 32 W		PC 1x26/32/42-6 TC COMBO	89899931	123 x 79 x 31 mm	66.5 mm	32.0 W	40 W	0.180 A	0.95	1.00	0.090	0.085	3 / 1 h
TC-TEL 1 x 42 W		PC 1x26/32/42-6 TC COMBO	89899931	123 x 79 x 31 mm	66.5 mm	42.0 W	52 W	0.230 A	0.95	1.00	0.065	0.060	3 / 1 h
TC-DEL 2 x 26 W		PC 2x26-3 TC COMBO	89899984	123 x 102 x 31 mm	89.5 mm	48.0 W	52 W	0.230 A	0.95	1.00	0.095	0.080	3 / 1 h
TC-TEL 2 x 26 W		PC 2x26-3 TC COMBO	89899984	123 x 102 x 31 mm	89.5 mm	48.0 W	52 W	0.230 A	0.95	1.00	0.065	0.055	3 / 1 h
TC-DEL 2 x 26 W		PC 2x26-4 TC COMBO	89899930	123 x 102 x 31 mm	89.5 mm	48.0 W	56 W	0.250 A	0.95	1.00	0.085	0.095	3 / 1 h
TC-TEL 2 x 26 W		PC 2x26-4 TC COMBO	89899930	123 x 102 x 31 mm	89.5 mm	48.0 W	56 W	0.250 A	0.95	1.00	0.085	0.085	3 / 1 h
TC-DEL 2 x 26 W		PC 2x26/32-5 TC COMBO	89899998	123 x 102 x 31 mm	89.5 mm	48.0 W	56 W	0.260 A	0.97	1.00	0.140	0.105	3 / 1 h
TC-TEL 2 x 26 W		PC 2x26/32-5 TC COMBO	89899998	123 x 102 x 31 mm	89.5 mm	50.0 W	57 W	0.260 A	0.97	1.00	0.120	0.100	3 / 1 h
TC-TEL 2 x 32 W		PC 2x26/32-5 TC COMBO	89899998	123 x 102 x 31 mm	89.5 mm	62.0 W	71 W	0.330 A	0.98	1.00	0.100	0.085	3 / 1 h
TC-DEL 2 x 26 W		PC 2x26/32/42-6 TC COMBO	89899989	123 x 102 x 31 mm	89.5 mm	49.0 W	58 W	0.260 A	0.98	1.00	0.110	0.095	3 / 1 h
TC-TEL 2 x 26 W		PC 2x26/32/42-6 TC COMBO	89899989	123 x 102 x 31 mm	89.5 mm	49.0 W	58 W	0.260 A	0.98	1.00	0.080	0.080	3 / 1 h
TC-TEL 2 x 32 W		PC 2x26/32/42-6 TC COMBO	89899989	123 x 102 x 31 mm	89.5 mm	62.0 W	75 W	0.330 A	0.98	1.00	0.090	0.085	3 / 1 h
TC-TEL 2 x 42 W		PC 2x26/32/42-6 TC COMBO	89899989	123 x 102 x 31 mm	89.5 mm	82.0 W	98 W	0.440 A	0.98	1.00	0.065	0.060	3 / 1 h
<b>Rated operating time 3 h, Low Output BLF</b>													
TC-DD 1 x 28 W		PC 1x28-33 LO DD COMBO	89899943	123 x 79 x 31 mm	66.5 mm	17.0 W	24 W	0.110 A	0.96	0.75	0.110	0.100	3 h
TC-DD 1 x 28 W		PC 1x28-34 LO DD COMBO	89899955	123 x 79 x 31 mm	66.5 mm	17.0 W	24 W	0.110 A	0.96	0.75	0.150	0.115	3 h
TC-DD 1 x 38 W		PC 1x38-34 LO DD COMBO	89899981	123 x 79 x 31 mm	66.5 mm	26.0 W	35 W	0.160 A	0.96	0.85	0.060	0.055	3 h
<b>Rated operating time 3 h, High Output BLF</b>													
TC-DD 1 x 16 W		PC 1x16-33 HO DD COMBO	89899926	123 x 79 x 31 mm	66.5 mm	13.0 W	18 W	0.084 A	0.95	1.00	0.090	0.085	3 h
TC-DD 1 x 28 W		PC 1x28-33 HO DD COMBO	89899957	123 x 79 x 31 mm	66.5 mm	25.0 W	31 W	0.140 A	0.96	1.00	0.110	0.100	3 h
TC-DD 1 x 28 W		PC 1x28-34 HO DD COMBO	89899958	123 x 79 x 31 mm	66.5 mm	25.0 W	31 W	0.140 A	0.96	1.00	0.150	0.115	3 h
TC-DD 1 x 38 W		PC 1x38-34 HO DD COMBO	89899933	123 x 79 x 31 mm	66.5 mm	34.0 W	41 W	0.180 A	0.96	1.00	0.060	0.055	3 h
TC-DD 1 x 38 W		PC 1x38-35 HO DD COMBO	89899975	123 x 79 x 31 mm	66.5 mm	34.0 W	41 W	0.180 A	0.96	1.00	0.100	0.085	3 h

① PC 1x28-33 HO DD COMBO, PC 1x38-34 HO DD COMBO, PC 1x28-33 LO DD COMBO and PC 1x38-34 LO DD COMBO only for Biax non-amalgam lamps.

② For 230 V, 50 Hz.

③ According to EN 61347-2-7: 2006.

RoHS

ACCES-  
SORIES

Test switch EM2

**Product description**

- For connection to the emergency lighting unit
- For checking the device function



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

Status indication green LED

**Product description**

- A green LED indicates that charging current is flowing into the battery



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg



**Ballast Lumen Factor (BLF) in %**

PC CFL COMBO for TC-DEL and TC-TEL compact lamps, 3 or 1 h

Duration	3 or 1 h								
	Cells	3 cells	3 cells	4 cells	4 cells	3 cells	4 cells	5 cells	6 cells
Type	PC 1x18-3 TC COMBO	PC 2x18-3 TC COMBO	PC 1x18-4 TC COMBO	PC 2x18-4 TC COMBO	PC 1x26-3 TC COMBO	PC 1x26-4 T5 COMBO	PC 1x26/32-5 TC COMBO	PC 1x26/32/42-6 TC COMBO	
Article no.	89899990	89899982	89899927	89899928	89899983	89899976	89899929	89899931	
Lamp type	Wattage		BLF in emergency lighting mode in % for rated operating time						
TC-DEL	18 W	0.11 / 0.09	0.11 / 0.09	0.19 / 0.15	0.19 / 0.15				
	26 W					0.095 / 0.065	0.085	0.14 / 0.12	0.11 / 0.08
TC-TEL	18 W	0.11 / 0.09	0.11 / 0.09	0.19 / 0.15	0.19 / 0.15				
	26 W					0.095 / 0.065	0.085	0.14 / 0.12	0.11 / 0.08
	32 W							0.07	0.09
	42 W								0.065

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries								
NiCd 1.6 Ah Cs-cells	Stick	3	Accu-NiCd C 3A	89899743	•	•			•				
	Stick	4	Accu-NiCd C 4A	89899692			•	•		•			
	Stick	5	Accu-NiCd C 5A	89899695							•		
	Stick	6	Accu-NiCd C 6A	89899698									•
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699									•
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•			•				
	Stick	4	Accu-NiCd 4A 55	89800089			•	•		•			
	Stick	5	Accu-NiCd 5A	89895973							•		
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090							•		
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963									•
NiMH 2 Ah Cs-cells	Stick	3	Accu-NiMH C 3A	89899744	•	•			•				
	Stick	4	Accu-NiMH C 4A	89899700			•	•		•			
	Stick	5	Accu-NiMH C 5A	89899703							•		
	Stick	6	Accu-NiMH C 6A	89899706									•
	Stick + Stick	2 + 2	Accu-NiMH C 4C	89899702			•	•		•			
	Stick + Stick	3 + 2	Accu-NiMH C 5C	89899705							•		
	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707									•
NiMH 4 Ah Cs-cells <sup>①</sup>	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•	•			•				
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850			•	•		•			
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851							•		
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852									•
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853									•
Accupack NiCd 1.6 Ah	Accupack	3	Pack-NiCd 3C	89899676	•	•			•				
	Accupack	4	Pack-NiCd 4C	89899677			•	•		•			
	Accupack	5	Pack-NiCd 5C	89899678							•		
	Accupack	6	Pack-NiCd 6C	89899679									•
Accupack NiCd 4 Ah	Accupack	3	Pack-NiCd 3D	89899672	•	•			•				
	Accupack	4	Pack-NiCd 4D	89899673			•	•		•			
	Accupack	5	Pack-NiCd 5D	89899674							•		
	Accupack	6	Pack-NiCd 6D	89899675									•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

For 3-hour operation: 4 Ah D-cells NiCd or 4 Ah Cs-cells NiMH.

For 1-hour operation: 1.6 Ah Cs-cells NiCd or 2 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.

**Ballast Lumen Factor (BLF) in %**

PC CFL COMBO for TC-DEL and TC-TEL compact lamps, 3 or 1 h

	Duration	3 / 1 h			
		Cells	3 cells	4 cells	5 cells
Type		PC 2x26-3 TC COMBO	PC 2x26-4 TC COMBO	PC 2x26/32-5 TC COMBO	PC 2x26/32/42-6 TC COMBO
Article no.		89899984	89899930	89899998	89899989
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time			
TC-DEL	26 W	0.095 / 0.065	0.085	0.14 / 0.12	0.11 / 0.08
	26 W	0.095 / 0.065	0.085	0.14 / 0.12	0.11 / 0.08
TC-TEL	32 W			0.1	0.09
	42 W				0.065

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries			
NiCd 1.6 Ah Cs-cells	Stick	3	Accu-NiCd C 3A	89899743	•			
	Stick	4	Accu-NiCd C 4A	89899692		•		
	Stick	5	Accu-NiCd C 5A	89899695			•	
	Stick	6	Accu-NiCd C 6A	89899698				•
	Stick + Stick	3 + 3	Accu-NiCd C 6C	89899699				•
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•			
	Stick	4	Accu-NiCd 4A 55	89800089		•		
	Stick	5	Accu-NiCd 5A	89895973			•	
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090			•	
NiMH 2 Ah Cs-cells	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963				•
	Stick	3	Accu-NiMH C 3A	89899744	•			
	Stick	4	Accu-NiMH C 4A	89899700		•		
	Stick	5	Accu-NiMH C 5A	89899703			•	
	Stick	6	Accu-NiMH C 6A	89899706				•
	Stick + Stick	2 + 2	Accu-NiMH C 4C	89899702		•		
	Stick + Stick	3 + 2	Accu-NiMH C 5C	89899705			•	
NiMH 4 Ah Cs-cells <sup>Ⓢ</sup>	Stick + Stick	3 + 3	Accu-NiMH C 6C	89899707				•
	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•			
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850		•		
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851			•	
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852				•
Accupack NiCd 1.6 Ah	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853				•
	Accupack	3	Pack-NiCd 3C	89899676	•			
	Accupack	4	Pack-NiCd 4C	89899677		•		
	Accupack	5	Pack-NiCd 5C	89899678			•	
Accupack NiCd 4 Ah	Accupack	6	Pack-NiCd 6C	89899679				•
	Accupack	3	Pack-NiCd 3D	89899672	•			
	Accupack	4	Pack-NiCd 4D	89899673		•		
	Accupack	5	Pack-NiCd 5D	89899674			•	
	Accupack	6	Pack-NiCd 6D	89899675				•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

For 3-hour operation: 4 Ah D-cells NiCd or 4 Ah Cs-cells NiMH.

For 1-hour operation: 1.6 Ah Cs-cells NiCd or 2 Ah Cs-cells NiMH.

Ⓢ Maximum battery housing temperature 45 °C.

**Ballast Lumen Factor (BLF) in %**

PC CFL COMBO for TC-DEL and TC-TEL compact lamps, 3 h

	Duration	3 h								
		3 cells	3 cells	4 cells	4 cells	5 cells	3 cells	4 cells	4 cells	
Type		PC 1x16-33 HO DD COMBO	PC 1x28-33 HO DD COMBO	PC 1x28-34 HO DD COMBO	PC 1x38-34 HO DD COMBO	PC 1x38-35 HO DD COMBO	PC 1x28-33 LO DD COMBO	PC 1x28-34 LO DD COMBO	PC 1x38-34 LO DD COMBO	
Article no.		89899926	89899957	89899958	89899933	89899975	89899943	89899955	89899981	
Lamp type	Wattage	High Output – BLF in emergency lighting mode in % for rated operating time					Low Output – BLF in emergency lighting mode in % for rated operating time			
TC-DD	16 W	0.09								
	28 W		0.11	0.15			0.11	0.15		
	38 W				0.06	0.10			0.06	

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries							
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	•				•		
	Stick	4	Accu-NiCd 4A 55	89800089			•	•			•	•
	Stick	5	Accu-NiCd 5A	89895973					•			
	Stick + Stick	3 + 2	Accu-NiCd 5C 55	89800090					•			
	Stick + Stick	3 + 3	Accu-NiCd 6C	89895963								
NiMH 4 Ah Cs-cells <sup>①</sup>	Stick	3	Accu-NiMH 4 Ah C 3A	89899854	•	•				•		
	Stick	4	Accu-NiMH 4 Ah C 4A	89899850			•	•			•	•
	Stick	5	Accu-NiMH 4 Ah C 5A	89899851					•			
	Stick	6	Accu-NiMH 4 Ah C 6A	89899852								
	Stick + Stick	3 + 3	Accu-NiMH 4 Ah C 6C	89899853								
Accupack NiCd 4 Ah	Accupack	3	Pack-NiCd 3D	89899672	•	•				•		
	Accupack	4	Pack-NiCd 4D	89899673			•	•			•	•
	Accupack	5	Pack-NiCd 5D	89899674					•			
	Accupack	6	Pack-NiCd 6D	89899675								

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).

For 3-hour operation: 4 Ah D-cells NiCd or 4 Ah Cs-cells NiMH.

① Maximum battery housing temperature 45 °C.



Specific technical data

Lamp type	Lamp wattage	Type	Article number	Dimensions L x W x H	Hole spacing D	Lamp power	Circuit power	Mains current <sup>①</sup>	$\lambda^{\text{②}}$	Normal operation BLF	Emergency operation BLF	Emergency operation EBLF <sup>②</sup>	Rated duration
<b>Rated operating time 3 h, Low Output BLF</b>													
TC-DD	1 x 28 W	PC 1x28-33 LO E DD COMBO	89899980	123 x 79 x 31 mm	66.5 mm	16 W	23.4 W	0.16 A	0.63	0.7	0.105	0.090	3 h
TC-DD	1 x 28 W	PC 1x28-34 LO E DD COMBO	89800028	123 x 79 x 31 mm	66.5 mm	16 W	25.0 W	0.17 A	0.64	0.7	0.145	0.135	3 h

<sup>①</sup> For 230 V, 50 Hz.

<sup>②</sup> According to EN 61347-2-7: 2006.

Not suitable for use with amalgam lamps.

RoHS

ACCES-  
SORIES

Status indication green LED



Product description

- A green LED indicates that charging current is flowing into the battery

Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg

Ballast Lumen Factor (BLF) in %

PC CFL E COMBO for TC-DD compact lamps, 3 h

		Duration	
		3 h	
		3 cells	4 cells
Type		PC 1x28-33 LO E DD COMBO	PC 1x28-34 LO E DD COMBO
Article no.		89899980	89800028
Lamp type	Wattage	BLF in emergency lighting mode in % for rated operating time	
TC-DD	28 W	10.5	14.5

Technology and capacity	Design	Number of cells	Type	Article number	Assignable batteries	
NiCd 4 Ah D-cells	Stick	3	Accu-NiCd 3A	89895960	•	
	Stick	4	Accu-NiCd 4A 55	89800089		•
Accupack NiCd (high temperature)	Accupack 4 Ah	3	Pack-NiCd 3D	89899672	•	
	Accupack 4 Ah	4	Pack-NiCd 4D	89899673		•

Note: 50 °C batteries are also available (see separate data sheet at [www.tridonic.com](http://www.tridonic.com)).



NEW

**EM powerLED NM BASIC 1 W**  
Emergency lighting units LED

**Product description**

- LED emergency lighting supply unit for manual testing

**Properties**

- Standby operation
- Low-profile casing (21 x 30 mm cross-section)
- Constant current mode
- With either screw or clip fastening (clip-fix)
- 3 h rated duration
- Green charge status display LED
- Output power limitation
- Automatic restart after LED replacement
- Electronic charge system
- SELV classified (outputs powerLED, battery, status LED, test switch)
- Polarity reversal protection for battery
- Deep discharge protection
- Short-circuit-proof battery connection
- Emergency lighting LEDs available
- Optional test switch

**Batteries**

- High-temperature cells
- NiCd or NiMH batteries
- Cs cells
- Blade terminals for simple connection

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

**Technical data**

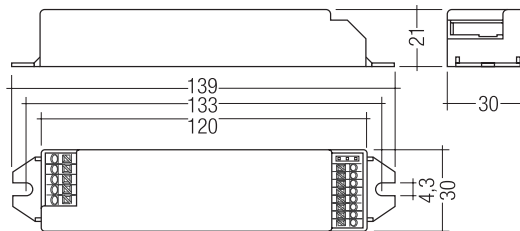
Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	14 mA
Power in mains operation	1.4 W
Maximum LED forward bias Vf	3.4 V
LED current in emergency operation	320 mA
Overvoltage protection	320 V (for 1 h)
Battery charging time	12 h
Charge current	120 mA
Battery discharge current	see data sheet
Number of cells	3
Leakage current (PE)	< 0.5 mA
Ambient temperature ta	-25 ... +50 °C
Max. casing temperature tc	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Type of protection	IP20



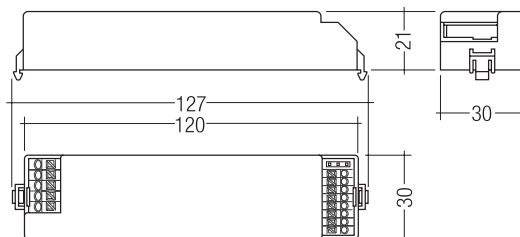
Screw-fix



Clip-fix



Screw-fix



Clip-fix

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.	Max. number of LEDs	Wattage
<b>Screw fastening version</b>						
EM powerLED NM 1 W BASIC	89800112	25 pieces	600 pieces	0.05 kg	1	1 W
<b>Clip fastening version</b>						
EM powerLED NM 1 W BASIC	89800111	25 pieces	600 pieces	0.05 kg	1	1 W



Standards, page 297

Batteries, page 376

For wiring diagrams and installation examples see data sheet

RoHS

ACCES-  
SORIES

### Test switch EM2



#### Product description

- For connection to the emergency lighting unit
- For checking the device function

#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

### Status indication green LED



#### Product description

- A green LED indicates that charging current is flowing into the battery

#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg



NEW

**EM powerLED BASIC 1 – 4 W**  
Emergency lighting units LED

**Product description**

- LED emergency lighting supply unit for manual testing

**Properties**

- EM powerLED 1 W, EM powerLED 2 W: mains and emergency operation
- EM powerLED 4 W: emergency operation
- Low-profile casing (21 x 30 mm cross-section)
- Constant current mode
- With either screw or clip fastening (clip-fix)
- 1, 2 or 3 h rated duration
- Selectable operating time (jumper)
- Green charge status display LED
- Output power limitation
- Automatic restart after LED replacement
- Electronic multi-level charge system
- SELV classified (outputs powerLED, battery, status LED, test switch)
- Polarity reversal protection for battery
- Deep discharge protection
- Short-circuit-proof battery connection
- Emergency lighting LEDs available

**Batteries**

- High-temperature cells
  - 2 Ah for 1 and 2 W version
  - 4 Ah for 4 W version
  - NiMH batteries
  - Cs cells
  - Blade terminals for simple connection
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Standards, page 297

Batteries, page 376

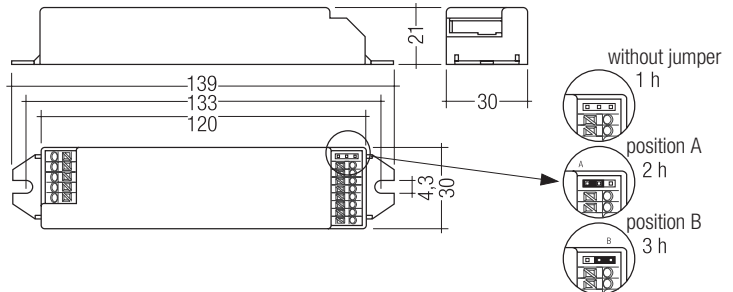
For wiring diagrams and installation examples see data sheet



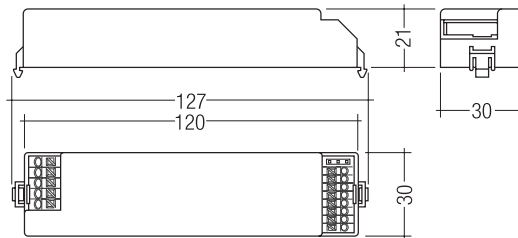
Screw-fix



Clip-fix



Screw-fix



Clip-fix



### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current in mains operation, 1 W device	30 mA
Mains current in mains operation, 2 W device	42 mA
Mains current in charging operation, 4 W device	30 mA
Power in mains operation, 1 W device	4 W
Power in mains operation, 2 W device	5 W
Power in charging operation, 4 W device	4 W
Maximum LED forward bias Vf	3.4 V
Overvoltage protection	320 V (for 1 h)
Battery charging time, 1 and 2 W device	12 h
Battery charging time, 4 W device	15 h
Charging current, initial charge – 2 Ah cells	125 mA
Charging current, power charge – 2 Ah cells	210 mA
Charging current, trickle charge – 2 Ah cells	50 mA
Charging current, initial charge – 4 Ah cells	330 mA
Charging current, power charge – 4 Ah cells	300 mA
Charging current, trickle charge – 4 Ah cells	130 mA
Battery discharge current	see data sheet
Leakage current (PE)	< 0.5 mA
Max. casing temperature tc	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Type of protection	IP20

### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.	Max. number of LEDs	Wattage
<b>Screw fastening version</b>						
EM powerLED 1 W BASIC	89899858	25 pieces	600 pieces	0.10 kg	1	1 W
EM powerLED 2 W BASIC	89899859	25 pieces	600 pieces	0.10 kg	2	2 W
EM powerLED 4 W BASIC	89800122	25 pieces	600 pieces	0.10 kg	2	4 W
<b>Clip fastening version</b>						
EM powerLED 1 W BASIC	89899865	25 pieces	600 pieces	0.10 kg	1	1 W
EM powerLED 2 W BASIC	89899866	25 pieces	600 pieces	0.10 kg	2	2 W
EM powerLED 4 W BASIC	89800121	25 pieces	600 pieces	0.10 kg	2	4 W

### Specific technical data

Type	Ambient temperature ta	LED current in emergency operation		LED current in mains operation		Number of cells / jumper		
		1 x LED	2 x LED	1 x LED	2 x LED	1 h / removed	2 h / position A	3 h / position B
EM powerLED 1 W BASIC	-25 ... +50 °C	350 mA	–	350 mA	–	2	3	3
EM powerLED 2 W BASIC	-25 ... +50 °C	600 mA	350 mA	350 mA	350 mA	3	4	5
EM powerLED 4 W BASIC	in preparation	1,000 mA	700 mA	–	–	3	4	5

RoHS

ACCES-  
SORIES

### Test switch EM2

#### Product description

- For connection to the emergency lighting unit
- For checking the device function



#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

### Status indication green LED

#### Product description

- A green LED indicates that charging current is flowing into the battery



#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg



NEW

**EM powerLED SELFTEST 1 – 4 W**  
Emergency lighting units LED

**Product description**

- LED emergency lighting supply unit with selftest function

**Properties**

- EM powerLED 1 W, EM powerLED 2 W: mains and emergency operation
- EM powerLED 4 W: emergency operation
- Selftest as per IEC 62034
- Low-profile casing (21 x 30 mm cross-section)
- Constant current mode
- With either screw or clip fastening (clip-fix)
- 1, 2 or 3 h rated duration
- Selectable operating time (jumper)
- Output power limitation
- Two-colour status display LED
- "Rest mode" function
- Simple set-up
- Automatic restart after LED replacement
- Electronic multi-level charge system
- SELV classified (outputs powerLED, battery, status LED, test switch)
- Polarity reversal protection for battery
- Deep discharge protection
- Short-circuit-proof battery connection
- Emergency lighting LEDs available

**Selftest:**

- Status of the battery
- Status of the LED
- Charge condition
- Function test
- Service life test

**Batteries**

- High-temperature cells
- 2 Ah for 1 and 2 W version
- 4 Ah for 4 W version
- NiMH batteries
- Cs cells
- Blade terminals for simple connection

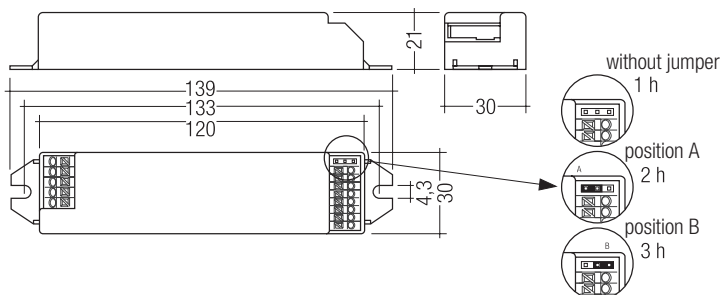
→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



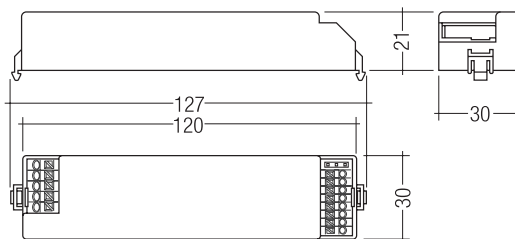
Screw-fix



Clip-fix



Screw-fix



Clip-fix

Emergency lighting units



Standards, page 297

Batteries, page 376

For wiring diagrams and installation examples see data sheet

## Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current in mains operation, 1 W device	30 mA
Mains current in mains operation, 2 W device	42 mA
Mains current in charging operation, 4 W device	30 mA
Power in mains operation, 1 W device	4 W
Power in mains operation, 2 W device	5 W
Power in charging operation, 4 W device	4 W
Maximum LED forward bias Vf	3.4 V
Overvoltage protection	320 V (for 1 h)
Battery charging time, 1 and 2 W device	12 h
Battery charging time, 4 W device	15 h
Charging current, initial charge – 2 Ah cells	125 mA
Charging current, power charge – 2 Ah cells	210 mA
Charging current, trickle charge – 2 Ah cells	50 mA
Charging current, initial charge – 4 Ah cells	330 mA
Charging current, power charge – 4 Ah cells	300 mA
Charging current, trickle charge – 4 Ah cells	130 mA
Battery discharge current	see data sheet
Leakage current (PE)	< 0.5 mA
Max. casing temperature tc	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Type of protection	IP20
Rest mode max. number of emergency units	100
Rest mode max. wiring distance	1,000 m
Functional test	Weekly 5s test
Service life test	Yearly 1 h / 2 h / 3 h test

## Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.	Max. number of LEDs	Wattage
<b>Screw fastening version</b>						
EM powerLED 1 W ST	89899860	25 pieces	600 pieces	0.10 kg	1	1 W
EM powerLED 2 W ST	89899861	25 pieces	600 pieces	0.10 kg	2	2 W
EM powerLED 4 W ST	89800124	25 pieces	600 pieces	0.10 kg	2	4 W
<b>Clip fastening version</b>						
EM powerLED 1 W ST	89899867	25 pieces	600 pieces	0.10 kg	1	1 W
EM powerLED 2 W ST	89899868	25 pieces	600 pieces	0.10 kg	2	2 W
EM powerLED 4 W ST	89800123	25 pieces	600 pieces	0.10 kg	2	4 W

## Specific technical data

Type	Ambient temperature ta	LED current in emergency operation		LED current in mains operation		Number of cells / jumper		
		1 x LED	2 x LED	1 x LED	2 x LED	1 h / removed	2 h / position A	3 h / position B
EM powerLED 1 W ST	-25 ... +50 °C	350 mA	–	350 mA	–	2	3	3
EM powerLED 2 W ST	-25 ... +50 °C	600 mA	350 mA	350 mA	350 mA	3	4	5
EM powerLED 4 W ST	in preparation	1,000 mA	700 mA	–	–	3	4	5

RoHS

ACCES-  
SORIES

Test switch EM2



Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

Product description

- For connection to the emergency lighting unit
- For checking the device function

RoHS

ACCES-  
SORIES

Status indication bi-colour LED



Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM bi-colour	89899720	25 pieces	200 pieces	0.017 kg
LED EM bi-colour, high brightness	89899753	25 pieces	200 pieces	0.013 kg

Product description

- Two-colour status display LED
- Green: system OK, red: fault



NEW

**EM powerLED PRO EZ-3 1 – 4 W**  
Emergency lighting units LED

**Product description**

- LED emergency lighting supply unit with DALI interface and automatic test function

**Properties**

- EM powerLED 1 W, EM powerLED 2 W: mains and emergency operation
- EM powerLED 4 W: emergency operation
- DALI interface for controlled testing and monitoring
- DALI switchable in mains operation (on/off); the switched phase SL must be switched on
- Low-profile casing (21 x 30 mm cross-section)
- Constant current mode
- With either screw or clip fastening (clip-fix)
- 1, 2 or 3 h rated duration
- Selectable operating time (jumper)
- Output power limitation
- Two-colour status display LED
- Automatic restart after LED replacement
- Electronic multi-level charge system
- SELV classified (outputs powerLED, battery, status LED, test switch)
- Polarity reversal protection for battery
- Deep discharge protection
- Short-circuit-proof battery connection
- Addressing function, patented ("EZ easy addressing")
- Emergency lighting LEDs available

**Tests:**

- Status of the battery
- Status of the LED
- Charge condition
- Function test
- Service life test

**Batteries**

- High-temperature cells  
2 Ah for 1 and 2 W version  
4 Ah for 4 W version
- NiMH batteries
- Cs cells
- Blade terminals for simple connection

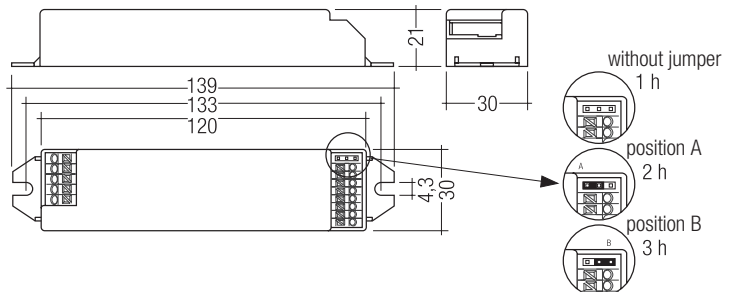
→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



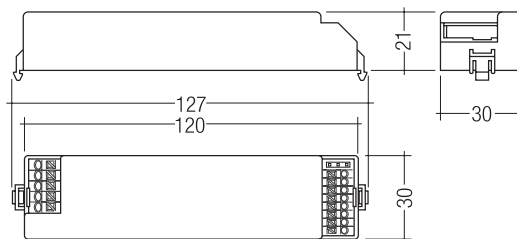
Screw-fix



Clip-fix



Screw-fix



Clip-fix



Standards, page 297

Batteries, page 376

For wiring diagrams and installation examples see data sheet

### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current in mains operation, 1 W device	30 mA
Mains current in mains operation, 2 W device	42 mA
Mains current in charging operation, 4 W device	30 mA
Power in mains operation, 1 W device	4 W
Power in mains operation, 2 W device	5 W
Power in charging operation, 4 W device	4 W
Maximum LED forward bias Vf	3.4 V
Overvoltage protection	320 V (for 1 h)
Battery charging time, 1 and 2 W device	12 h
Battery charging time, 4 W device	15 h
Charging current, initial charge – 2 Ah cells	125 mA
Charging current, power charge – 2 Ah cells	210 mA
Charging current, trickle charge – 2 Ah cells	50 mA
Charging current, initial charge – 4 Ah cells	330 mA
Charging current, power charge – 4 Ah cells	300 mA
Charging current, trickle charge – 4 Ah cells	130 mA
Battery discharge current	see data sheet
Leakage current (PE)	< 0.5 mA
Max. casing temperature tc	70 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Type of protection	IP20

### Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.	Max. number of LEDs	Wattage
<b>Screw fastening version</b>						
EM powerLED 1 W PRO EZ-3	89800029	25 pieces	600 pieces	0.10 kg	1	1 W
EM powerLED 2 W PRO EZ-3	89800030	25 pieces	600 pieces	0.10 kg	2	2 W
EM powerLED 4 W PRO EZ-3	89800126	25 pieces	600 pieces	0.10 kg	2	4 W
<b>Clip fastening version</b>						
EM powerLED 1 W PRO EZ-3	89800031	25 pieces	600 pieces	0.10 kg	1	1 W
EM powerLED 2 W PRO EZ-3	89800032	25 pieces	600 pieces	0.10 kg	2	2 W
EM powerLED 4 W PRO EZ-3	89800125	25 pieces	600 pieces	0.10 kg	2	4 W

### Specific technical data

Type	Ambient temperature ta	LED current in emergency operation		LED current in mains operation		Number of cells / jumper		
		1 x LED	2 x LED	1 x LED	2 x LED	1 h / removed	2 h / position A	3 h / position B
EM powerLED 1 W PRO EZ-3	-25 ... +50 °C	350 mA	–	350 mA	–	2	3	3
EM powerLED 2 W PRO EZ-3	-25 ... +50 °C	600 mA	350 mA	350 mA	350 mA	3	4	5
EM powerLED 4 W PRO EZ-3	in preparation	1,000 mA	700 mA	–	–	3	4	5

RoHS

**Product description**

- For connection to the emergency lighting unit
- For checking the device function

ACCES-  
SORIES

**Test switch EM2**



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 2	89805277	25 pieces	200 pieces	0.013 kg

RoHS

**Product description**

- Two-colour status display LED
- Green: system OK, red: fault

ACCES-  
SORIES

**Status indication bi-colour LED**



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM bi-colour	89899720	25 pieces	200 pieces	0.017 kg
LED EM bi-colour, high brightness	89899753	25 pieces	200 pieces	0.013 kg

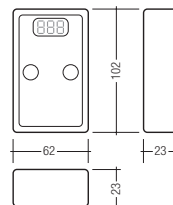
RoHS

ACCES-  
SORIES

**Addressing tool**

**Product description**

- Provides simple addressing for the EM PRO units
- Uses the bi-colour LED for device identification



**Ordering data**

Type	Article number	Weight per pcs.
EM PRO addressing tool	89899836	0.08 kg





NEW

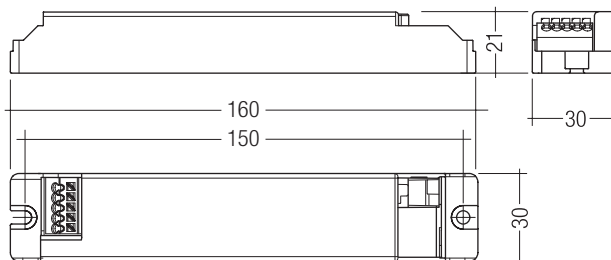
**EM powerLED SELFTEST 10 W**  
Emergency lighting units LED

**Product description**

- LED emergency lighting supply modules with selftest functionality for single battery systems

**Properties**

- Selftest as per IEC 62034
  - Mains and emergency operation. For mains operation the switched line SL must be switched on.
  - Low-profile casing (21 x 30 mm cross-section)
  - Constant current mode
  - Screw fixing
  - 1, 2 or 3 h rated duration
  - Two-colour status display LED
  - Automatic restart after LED replacement
  - Electronic multi-level charge system
  - SELV classified (outputs powerLED, battery, status LED, test switch)
  - Reverse battery connection protection via polarised battery connector plug
  - Deep discharge protection
  - Short-circuit-proof battery connection
  - Temperature protection as per EN 61347-2-3 C5e
  - Optional test switch
  - Selftest:
    - Status of the battery
    - Status of the LED
    - Charge condition
    - Function test
    - Service life test
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Rated supply voltage AC	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	0.08 A
$\lambda$ at 230 V 50 Hz	0.78
Max. output current in mains operation	0.5 A
Output current in emergency operation	0.05 A
EBLF in emergency lighting mode	~ 0.1
Power in mains operation (at max. LED load and simultaneous fast charging)	16 W
Max. output voltage	20 V
Max. open circuit voltage	30 V
Overvoltage protection (L, SL)	320 V (for 1 h)
Battery charging time	10 h
Charge current, initial charge	170 mA
Charge current, power charge	276 mA
Charge current, trickle charge	50 mA
Battery discharge current	see data sheet
Ambient temperature $t_a$	-10 ... +45 °C
Max. casing temperature $t_c$	70 °C
Max. casing temperature under failure	130 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Number of LED channels	1
LED starting time (time to light in emergency mode)	< 0.5 s after mains interruption
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
EM powerLED 10 W ST 1H	89800127	25 pieces	600 pieces	0.08 kg
EM powerLED 10 W ST 2H	89800128	25 pieces	600 pieces	0.08 kg
EM powerLED 10 W ST 3H	89800129	25 pieces	600 pieces	0.08 kg



Standards, page 297

Batteries, page 376

For wiring diagrams and installation examples see data sheet

RoHS

ACCES-  
SORIES

### Test switch EM4

#### Product description

- For connection to the emergency lighting unit
- For checking the device function



#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 4	89800153	25 pieces	200 pieces	0.013 kg

RoHS

ACCES-  
SORIES

### Status indication bi-colour LED

#### Product description

- Two-colour status display LED
- Green: system OK, red: fault



#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM bi-colour	89800154	25 pieces	200 pieces	0.017 kg
LED EM bi-colour, high brightness	89800155	25 pieces	200 pieces	0.013 kg



NEW

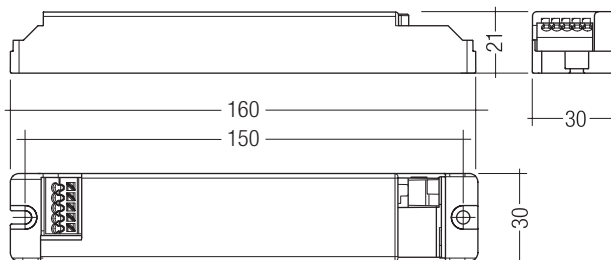
**EM powerLED PRO 10 W**  
Emergency lighting units LED

**Product description**

- LED emergency lighting modules for single battery systems with DALI communication and automatic test function

**Properties**

- DALI interface for controlled testing and monitoring
  - Mains and emergency operation. For mains operation the switched line SL must be switched on
  - DALI arc power commands are supported
  - Dimmable
  - Dimming range 10 to 100 %
  - Low-profile casing (21 x 30 mm cross-section)
  - Constant current mode
  - Screw fixing
  - 1, 2 or 3 h rated duration
  - Two-colour status display LED
  - Automatic restart after LED replacement
  - Electronic multi-level charge system
  - SELV classified (outputs powerLED, battery, status LED, test switch)
  - Reverse battery connection protection via polarised battery connector plug
  - Deep discharge protection
  - Short-circuit-proof battery connection
  - Addressing function, patented ("EZ easy addressing")
  - Temperature protection as per EN 61347-2-3 C5e
  - Optional test switch
- Tests:
- Status of the battery
  - Status of the LED
  - Charge condition
  - Function test
  - Service life test
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Rated supply voltage AC	220 – 240 V
Mains frequency	50 / 60 Hz
Mains current	0.08 A
λ at 230 V 50 Hz	0.78
Max. output current in mains operation	0.5 A
output current in emergency operation	0.05 A
EBLF in emergency lighting mode	~ 0.1
Power in mains operation (at max. LED load and simultaneous fast charging)	16 W
Max. output voltage	20 V
Max. open circuit voltage	30 V
Overvoltage protection (L, SL)	320 V (for 1 h)
Battery charging time	10 h
Charge current, initial charge	170 mA
Charge current, power charge	276 mA
Charge current, trickle charge	50 mA
Battery discharge current	see data sheet
Ambient temperature ta	-10 ... +45 °C
Max. casing temperature tc	70 °C
Max. casing temperature under fault condition	130 °C
Mains voltage changeover threshold	according to EN 60598-2-22
Number of LED channels	1
LED starting time (time to light in emergency mode)	≤ 0.5 s after mains interruption
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pcs.
EM powerLED 10 W PRO 1H	89800130	25 pieces	600 pieces	0.08 kg
EM powerLED 10 W PRO 2H	89800131	25 pieces	600 pieces	0.08 kg
EM powerLED 10 W PRO 3H	89800132	25 pieces	600 pieces	0.08 kg

Emergency lighting units



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Batteries, page 376

For wiring diagrams and installation examples see data sheet

RoHS

**Product description**

- For connection to the emergency lighting unit
- For checking the device function

ACCES-  
SORIES

**Test switch EM4**



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
Test switch EM 4	89800153	25 pieces	200 pieces	0.013 kg

RoHS

**Product description**

- Two-colour status display LED
- Green: system OK, red: fault

ACCES-  
SORIES

**Status indication bi-colour LED**



**Ordering data**

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM bi-colour	89800154	25 pieces	200 pieces	0.017 kg
LED EM bi-colour, high brightness	89800155	25 pieces	200 pieces	0.013 kg

RoHS

**Product description**

- Provides simple addressing for the EM PRO units
- Uses the bi-colour LED for device identification

ACCES-  
SORIES

**Addressing tool**



**Ordering data**

Type	Article number	Weight per pcs.
EM PRO addressing tool	89899836	0.08 kg



NEW

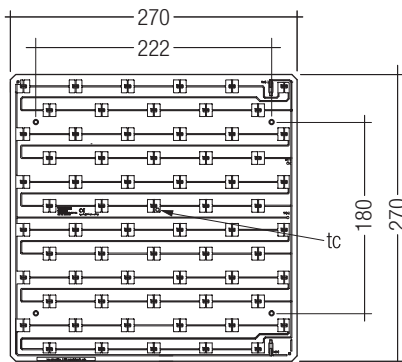
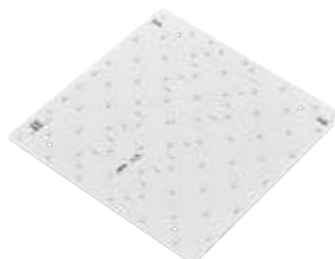
**TALEXmodule STARK QLE CLASSIC EM**  
EM LED light sources

**Product description**

- Combined LED module for general and emergency lighting
- Ideal for linear and panel lights
- Integrated separate emergency LEDs controlled by EM powerLED (2 or 4 W version)

**Properties**

- Efficiency of the module up to 106 lm/W
  - Separate wired emergency LEDs
  - High colour rendering index CRI > 80
  - Small colour tolerance MacAdam 4
  - Small luminous flux tolerances
  - Colour temperatures 3,000 and 4,000 K
  - Perfectly uniform light, even if several LED modules are used together in a line
  - Self-cooling (no additional heat sink required)
  - Terminals for quick and simple wiring of LED module to LED module
  - Simple installation (e.g. screws)
  - Long lifetime: 50,000 hours
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Draft design – dimensions and layout could diverge from the drawings

**Technical data**

Beam characteristic	120°
Ambient temperature $t_a$	-40 ... +55 °C
Typ. tc point	65 °C
Risk group (EN 62471:2008)	0

**Ordering data**

Type	Article number	Colour temperature	Packaging, carton	Weight per pcs.
STARK-QLE-1250-830-CLA-EM	25000817	3,000 K	40 pieces	0.135 kg
STARK-QLE-1250-840-CLA-EM	25000819	4,000 K	40 pieces	0.135 kg



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For colour temperatures, tolerances, wiring diagrams and installation examples see data sheet

**Specific technical data**

Type	Typ. luminous flux	Typ. forward current	Typ. forward voltage	Typ. power consumption	Luminous efficacy module	Luminous efficacy system	Colour rendering index CRI
<b>Mains mode</b>							
STARK QLE-1250-830-CLA EM	1,190 lm	350 mA	33.7 V	11.8 W	> 101 lm/W	~ 93 lm/W	> 80
STARK QLE-1250-840-CLA EM	1,250 lm	350 mA	33.7 V	11.8 W	> 106 lm/W	~ 98 lm/W	> 80
<b>Emergency mode – 350 mA (EM powerLED 2 W)</b>							
STARK QLE-1250-830-CLA EM	119 lm	350 mA	6.2 V	–	–	–	–
STARK QLE-1250-840-CLA EM	125 lm	350 mA	6.2 V	–	–	–	–
<b>Emergency mode – 700 mA (EM powerLED 4 W)</b>							
STARK QLE-1250-830-CLA EM	in preparation	700 mA	6.2 V	–	–	–	–
STARK QLE-1250-840-CLA EM	in preparation	700 mA	6.2 V	–	–	–	–



NEW

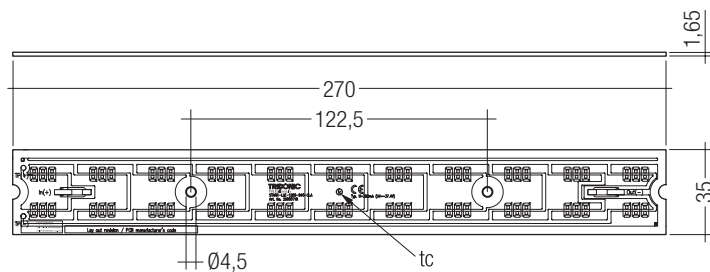
**TALEXmodule STARK LLE CLASSIC EM**  
EM LED light sources

**Product description**

- Combined LED module for general and emergency lighting
- Ideal for linear and panel lights
- Integrated separate emergency LEDs controlled by EM powerLED (2 or 4 W version)

**Properties**

- Efficiency of the module up to 106 lm/W
  - Separate wired emergency LEDs
  - High colour rendering index CRI > 80
  - Small colour tolerance MacAdam 4
  - Small luminous flux tolerances
  - Colour temperatures 3,000 and 4,000 K
  - Perfectly uniform light, even if several LED modules are used together in a line
  - Terminals for quick and simple wiring of LED module to LED module
  - Simple installation (e.g. screws)
  - Long lifetime: 50,000 hours
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Draft design – dimensions and layout could diverge from the drawings

**Technical data**

Beam characteristic	120°
Ambient temperature $t_a$	-40 ... +55 °C
Typ. tc point	65 °C
Risk group (EN 62471:2008)	0

**Ordering data**

Type	Article number	Colour temperature	Packaging, carton	Weight per pcs.
STARK LLE-1250-830-CLA EM	25000816	3,000 K	200 pieces	0.045 kg
STARK LLE-1250-840-CLA EM	25000818	4,000 K	200 pieces	0.045 kg



Standards, page 297

For colour temperatures, tolerances, wiring diagrams and installation examples see data sheet

**Specific technical data**

Type	Typ. luminous flux	Typ. forward current	Typ. forward voltage	Typ. power consumption	Luminous efficacy module	Luminous efficacy system	Colour rendering index CRI
<b>Mains mode</b>							
STARK LLE-1250-830-CLA EM	1,190 lm	350 mA	33.7 V	11.8 W	> 101 lm/W	~ 93 lm/W	> 80
STARK LLE-1250-840-CLA EM	1,250 lm	350 mA	33.7 V	11.8 W	> 106 lm/W	~ 98 lm/W	> 80
<b>Emergency mode – 350 mA (EM powerLED 2 W)</b>							
STARK LLE-1250-830-CLA EM	119 lm	350 mA	6.2 V	–	–	–	–
STARK LLE-1250-840-CLA EM	125 lm	350 mA	6.2 V	–	–	–	–
<b>Emergency mode – 700 mA (EM powerLED 4 W)</b>							
STARK LLE-1250-830-CLA EM	in preparation	700 mA	6.2 V	–	–	–	–
STARK LLE-1250-840-CLA EM	in preparation	700 mA	6.2 V	–	–	–	–



NEW

TALEXmodule SPOT P3xx EM  
EM LED light sources

Product description

- Combined LED module for general and emergency lighting
- Spotlights
- Downlights
- Integrated separate emergency LEDs controlled by EM powerLED (2 or 4 W version)

Properties

- High-flux LED module
- Separate wired emergency LEDs
- Narrow colour temperature tolerance band
- Lifetime up to 50,000 hours
- Compact design
- Excellent thermal management
- NTC for temperature control
- High-power LED in chip-on-board technology (COB)
- Beam characteristic: 140°
- Uniform distribution of light
- Attached with M3 screws
- Connection: cable 300 mm
- Built-in LED module
- Cooling required

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

Technical data

Beam characteristic	140°
Ambient temperature ta	-30 ... +55 °C
Typ. tc point	65 °C
Risk group (EN 62471:2008)	0

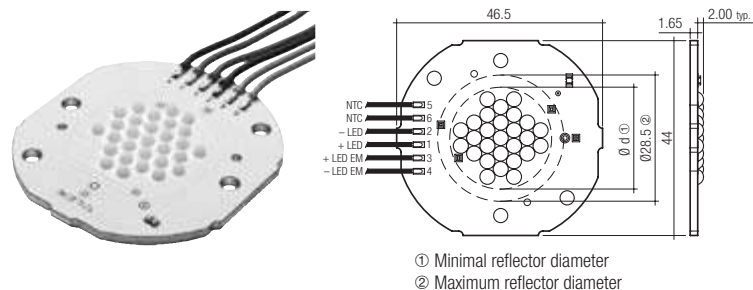


Fig. 1

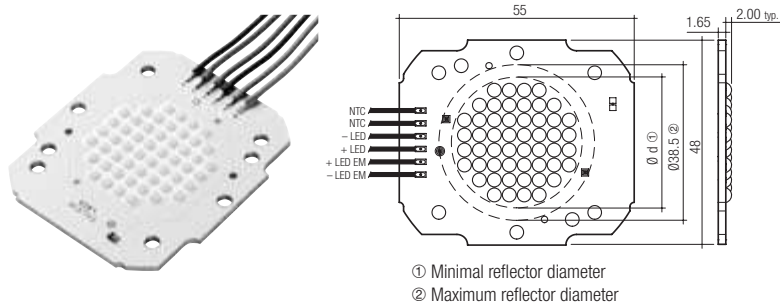


Fig. 2

Ordering data

Type	Article number	Colour temperature	Packaging, carton	Packaging, pallet	Weight per pcs.
LED P310-3 EM 3000K 47x44	89601431	3,000 K	20 pieces	360 pieces	0.015 kg
LED P310-3 EM 4000K 47x44	89601432	4,000 K	20 pieces	360 pieces	0.015 kg
LED P320-3 EM 3000K 47x44	89601433	3,000 K	20 pieces	360 pieces	0.015 kg
LED P320-3 EM 4000K 47x44	89601434	4,000 K	20 pieces	360 pieces	0.015 kg
LED P330-3 EM 3000K 47x44	89601195	3,000 K	20 pieces	360 pieces	0.015 kg
LED P330-3 EM 4000K 47x44	89601196	4,000 K	20 pieces	360 pieces	0.015 kg
LED P340-3 EM 3000K 55x48	89601435	3,000 K	20 pieces	360 pieces	0.020 kg
LED P340-3 EM 4000K 55x48	89601436	4,000 K	20 pieces	360 pieces	0.012 kg
LED P350-3 EM 3000K 55x48	89601437	3,000 K	20 pieces	360 pieces	0.020 kg
LED P350-3 EM 4000K 55x48	89601438	4,000 K	20 pieces	360 pieces	0.020 kg



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For colour temperatures, tolerances, wiring diagrams and installation examples see data sheet

Specific technical data

Type	Fig.	Diameter d	Typ. luminous flux at 350 mA	Typ. luminous flux at 700 mA	Typ. luminous flux at 1,050 mA	Typ. luminous flux at 1,400 mA	Typ. luminous flux at 1,750 mA	Typ. forward voltage	Power con- sumption module	Typ. luminous efficacy	Colour rende- ring index CRI
<b>Mains mode</b>											
LED P310-3 EM 3000K 47x44	1	19 mm	900 lm	1,500 lm	–	–	–	38.4 V	13.4 W	68 lm/W	> 80
LED P310-3 EM 4000K 47x44	1	19 mm	1,000 lm	1,680 lm	–	–	–	38.4 V	13.4 W	75 lm/W	> 80
LED P320-3 EM 3000K 47x44	1	23 mm	–	1,340 lm	1,850 lm	–	–	28.8 V	20.2 W	67 lm/W	> 80
LED P320-3 EM 4000K 47x44	1	23 mm	–	1,480 lm	2,050 lm	–	–	28.8 V	20.2 W	74 lm/W	> 80
LED P330-3 EM 3000K 47x44	1	23 mm	–	–	2,010 lm	2,500 lm	–	28.8 V	30.2 W	69 lm/W	> 80
LED P330-3 EM 4000K 47x44	1	23 mm	–	–	2,220 lm	2,760 lm	–	28.8 V	30.2 W	76 lm/W	> 80
LED P340-3 EM 3000K 55x48	2	30 mm	–	–	2,680 lm	3,350 lm	–	38.4 V	40.3 W	66 lm/W	> 80
LED P340-3 EM 4000K 55x48	2	30 mm	–	–	2,960 lm	3,680 lm	–	38.4 V	40.3 W	73 lm/W	> 80
LED P350-3 EM 3000K 55x48	2	30 mm	–	–	–	3,600 lm	4,330 lm	38.4 V	53.8 W	66 lm/W	> 80
LED P350-3 EM 4000K 55x48	2	30 mm	–	–	–	4,100 lm	4,830 lm	38.4 V	53.8 W	76 lm/W	> 80
<b>Emergency mode – 350 mA (EM powerLED 2 W)</b>											
LED P310-3 EM 3000K 47x44	1	19 mm	150 lm	–	–	–	–	6.2 V	2.2 W	68 lm/W	> 80
LED P310-3 EM 4000K 47x44	1	19 mm	167 lm	–	–	–	–	6.2 V	2.2 W	75 lm/W	> 80
LED P320-3 EM 3000K 47x44	1	23 mm	150 lm	–	–	–	–	6.2 V	2.2 W	67 lm/W	> 80
LED P320-3 EM 4000K 47x44	1	23 mm	167 lm	–	–	–	–	6.2 V	2.2 W	74 lm/W	> 80
LED P330-3 EM 3000K 47x44	1	23 mm	150 lm	–	–	–	–	6.2 V	2.2 W	69 lm/W	> 80
LED P330-3 EM 4000K 47x44	1	23 mm	167 lm	–	–	–	–	6.2 V	2.2 W	76 lm/W	> 80
<b>Emergency mode – 700 mA (EM powerLED 4 W)</b>											
LED P340-3 EM 3000K 55x48	2	30 mm	–	300 lm	–	–	–	6.2 V	4.4 W	69 lm/W	> 80
LED P340-3 EM 4000K 55x48	2	30 mm	–	330 lm	–	–	–	6.2 V	4.4 W	76 lm/W	> 80
LED P350-3 EM 3000K 55x48	2	30 mm	–	300 lm	–	–	–	6.2 V	4.4 W	69 lm/W	> 80
LED P350-3 EM 4000K 55x48	2	30 mm	–	330 lm	–	–	–	6.2 V	4.4 W	76 lm/W	> 80



RoHS

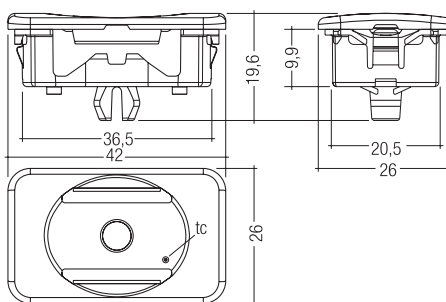
**TALEXmodule EM-AP 003**  
EM LED light sources

**Product description**

- LED emergency lighting module
- Anti-panic emergency lighting: illuminance  $E \geq 0.5$  lux (as per EN 1838)
- Compatible with EM powerLED 1 W

**Properties**

- High-power LED in chip-on-board technology (COB)
  - Long life thanks to integrated heat removal
  - Optimised system efficiency with broad beam characteristic
  - Integrated bi-colour status LED
  - Reverse polarity protection
  - Small dimensions
  - Different installation options
  - Connection: cable 300 mm
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Colour rendering index CRI	> 70
Ambient temperature $t_a$	-20 ... +50 °C
tc point <sup>2)</sup>	60 °C

**Ordering data**

Type	Article number	Colour <sup>3)</sup>	Colour temperature	Packaging	Weight per pcs.
EM-AP 003	89600960	Daylight white	6,500 K	10 pieces	0.016 kg

→ Standards, page 297

For colour temperatures, tolerances, wiring diagrams and installation examples see data sheet

**Specific technical data**

Type	Typ. luminous flux	Min. luminous flux	Max. current <sup>3)</sup>	Power <sup>3)4)</sup>
EM-AP 003	100 lm	90 lm	350 mA	1.2 W

<sup>1)</sup> Data for operation with 350 mA.

<sup>2)</sup> If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXmodule at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

<sup>3)</sup> Exceeding the max. operating current leads to an overload on the TALEXmodule. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXmodule.

<sup>4)</sup> Tolerance range for optical and electrical data:  $\pm 15\%$ .

<sup>5)</sup> Colour temperature and colour rendering index CRI according to CIE 1931.

RoHS

**TALEXmodule EM-ER 003**  
EM LED light sources

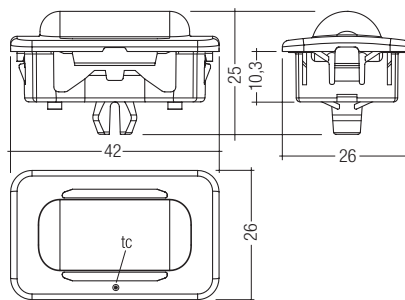
**Product description**

- LED emergency lighting module
- Escape route emergency lighting: illuminance  $E = 1.0$  lux (as per EN 1838)
- Compatible with EM powerLED 1 W

**Properties**

- High-power LED in chip-on-board technology (COB)
- Long life thanks to integrated heat removal
- Optimised system efficiency with beam characteristic
- Integrated bi-colour status LED
- Reverse polarity protection
- Small dimensions
- Different installation options
- Connection: cable 300 mm

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Colour rendering index CRI	> 70
Ambient temperature $t_a$	-20 ... +50 °C
tc point <sup>②</sup>	60 °C

**Ordering data**

Type	Article number	Colour <sup>③</sup>	Colour temperature	Packaging	Weight per pcs.
EM-ER 003	89600961	Daylight white	6,500 K	10 pieces	0.018 kg



Standards, page 297

For colour temperatures, tolerances, wiring diagrams and installation examples see data sheet

**Specific technical data**

Type	Typ. luminous flux	Min. luminous flux	Max. current <sup>③</sup>	Power <sup>④</sup>
EM-ER 003	90 lm	80 lm	350 mA	1.2 W

<sup>①</sup> Data for operation with 350 mA.

<sup>②</sup> If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXmodule at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

<sup>③</sup> Exceeding the max. operating current leads to an overload on the TALEXmodule. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXmodule.

<sup>④</sup> Tolerance range for optical and electrical data: ±15 %.

<sup>⑤</sup> Colour temperature and colour rendering index CRI according to CIE 1931.

RoHS

TALEXmodule EM-ES 08/10/12  
EM LED light sources

**Product description**

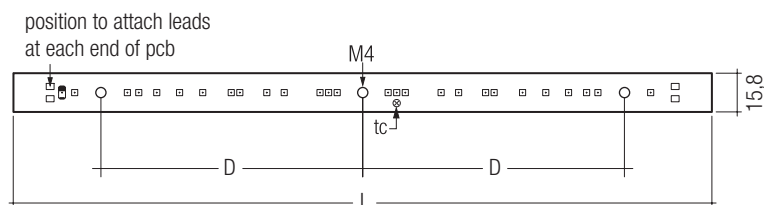
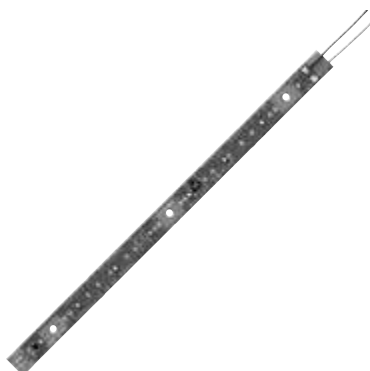
- Lighting module with 8, 10 or 12 high-power LEDs (emergency lighting strip)
- For use in escape route signs
- Compatible with EM powerLED 1 W

**Properties**

- Suitable for Tridonic EM powerLED emergency lighting units
- For permanent and standby operation
- Wide 120° distribution of light for uniform illumination
- Operation on a constant current source
- Replacement for 8 W T5 fluorescent lamp
- Several options for uniform light distribution
- Can be interconnected to create longer strips
- Low energy consumption
- Long life thanks to low operating temperature
- Provides a maintenance-free escape sign system
- Polarity reversal protection for battery
- Simple mounting/installation
- Connection: cable 300 mm

**Note**

Separate status LED required  
→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Ordering data**

Type	Article number	Colour	Colour temperature	Packaging, carton	Packaging, pallet	Weight per pcs.
<b>8 light points per module</b>						
ES 08 246	89899954	Daylight white	6,500 K	25 pieces	600 pieces	0.014 kg
ES 08 285	89899947	Daylight white	6,500 K	25 pieces	600 pieces	0.016 kg
<b>10 light points per module</b>						
ES 10 285	89899948	Daylight white	6,500 K	10 pieces	600 pieces	0.017 kg
<b>12 light points per module</b>						
ES 12 285	89899949	Daylight white	6,500 K	25 pieces	600 pieces	0.018 kg



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For colour temperatures, tolerances, wiring diagrams and installation examples see data sheet

**Specific technical data**

Type	Typ. luminous flux <sup>①</sup>	Max. current <sup>②</sup>	Power <sup>③</sup>	Ambient temperature $t_a$	tc point <sup>④</sup>	Total length	Hole spacing D
<b>8 light points per module</b>							
ES 08 246	80 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	246 mm	97.9 mm
ES 08 285	80 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm
<b>10 light points per module</b>							
ES 10 285	80 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm
<b>12 light points per module</b>							
ES 12 285	80 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm

<sup>①</sup> Tolerance range for optical and electrical data: ±15 %.

<sup>②</sup> Exceeding the max. operating current leads to an overload on the TALEXmodule. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXmodule.

<sup>③</sup> Data for operation with 350 mA.

<sup>④</sup> If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the module at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

RoHS

ACCES-  
SORIES

### Status indication green LED

#### Product description

- A green LED indicates that charging current is flowing into the battery



#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM green	89899605	25 pieces	200 pieces	0.017 kg
LED EM green, ultra high brightness	89899756	25 pieces	200 pieces	0.012 kg

RoHS

ACCES-  
SORIES

### Status indication bi-colour LED

#### Product description

- Two-colour status display LED
- Green: system OK, red: fault



#### Ordering data

Type	Article number	Packaging, bag	Packaging, carton	Weight per pcs.
LED EM bi-colour	89899720	25 pieces	200 pieces	0.017 kg
LED EM bi-colour, high brightness	89899753	25 pieces	200 pieces	0.013 kg



NEW

**DALI x/e-touchPANEL 02**  
Emergency lighting control systems

**Product description**

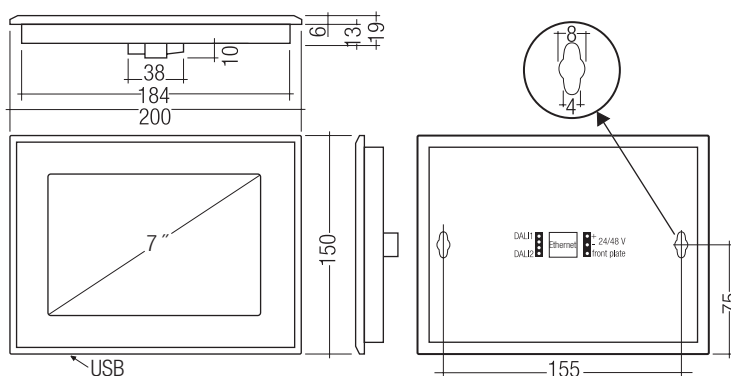
DALI control system with 2 mode options:

- Light management in mains mode
- Emergency lighting management

**Properties**

Emergency lighting management:

- For small and medium emergency lighting systems with up to 120 DALI emergency lighting units (60 for each DALI line) per DALI x/e-touchPANEL 02
  - 2 addresses for external status controls
  - Function and endurance tests can be conducted in accordance with local regulations
  - Colour touch screen (7")
  - User-friendly application software
  - With DALI system functions of addressing and grouping
  - Supports patented addressing function ("EZ easy addressing")
  - Individual indication of groups and devices
  - Calendar-controlled function and service life test
  - Easy-to-read system status
  - USB and ethernet interface
  - Simple downloading of the test report to a PC and software updates via USB or Ethernet
  - Can be remote-controlled via standard internet browser or software em-LINK (available at [www.tridonic.com](http://www.tridonic.com))
  - Interconnection of up to 25 panels for bigger installations possible
- Assembly/installation:
- External power supply (included)
  - External DALI bus supply needed
  - Simple fixing



**Technical data**

Rated supply voltage mains adapter	230 – 240 V
Mains frequency mains adapter	50 / 60 Hz
Rated supply voltage DALI x/e-touchPANEL 02	24 – 48 V DC
Power	10 W
Number of DALI circuits	2
Current consumption of each DALI line	2 mA
Ambient temperature ta	0 ... +50 °C
Touchscreen size	7"
Touchscreen pixel	800 x 480
Colours	64K
Interface	USB, Ethernet
Dimensions L x W x H	200 x 150 x 20 mm
Distance between mounting holes (D)	155 mm
Type of protection	IP20

**Ordering data**

Type	Article number	Packaging, carton
DALI x/e-touchPANEL 02	28000005	1 piece

**Note**

- DALI is not classified as SELV. The installation instructions for low voltage therefore apply
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



Standards, page 297

For wiring diagrams and installation examples see data sheet



**NiCd Accus 1.6 – 4.5 Ah for 55 °C**  
Nickel-Cadmium cells (NiCd)

**Product description**

- High-temperature NiCd cells for use with emergency lighting units

**Properties**

- Constant high-temperature operation at 55 °C
  - Good charging properties at high temperature
  - High energy maintenance of the charged battery
  - 4-year life in operation
  - Certified quality manufacturer
  - In various configurations
  - Simple connection with blade terminal
  - With polycarbonate fixing caps and connecting cable
  - Electrical connection with mounted end caps possible
  - Complies with IEC 61951-2 (constant charging load test)
  - Suitable for emergency lighting equipment as per IEC 60598-2-22
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

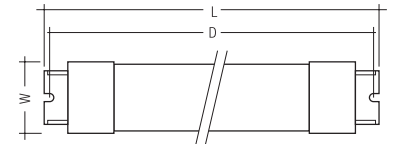


Figure 1: stick

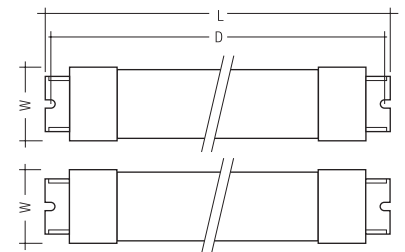


Figure 2: stick + stick



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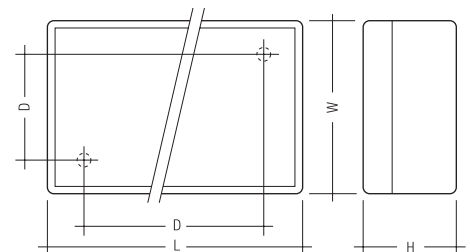


Figure 3: side by side

**Technical data**

Battery voltage per cell	1.2 V
Battery case temperature (for a life of 4 years)	0 ... +55 °C
Max. short term temperature (reduced lifetime)	70 °C

Ordering data

Type	Article number	Number of cells	Capacity	Packaging, carton	Packaging, outer box	Weight per pcs.
<b>NiCd D cells – stick</b>						
Accu-NiCd 2A 55	89800092	1 x 2	4.5 Ah	5 pieces	25 pieces	0.25 kg
Accu-NiCd 3A	89895960	1 x 3	4.2 Ah	5 pieces	25 pieces	0.40 kg
Accu-NiCd 4A 55	89800089	1 x 4	4.5 Ah	5 pieces	25 pieces	0.50 kg
Accu-NiCd 5A	89895973	1 x 5	4.2 Ah	5 pieces	25 pieces	0.65 kg
<b>NiCd D cells – stick + stick</b>						
Accu-NiCd 4C	89895978	2 + 2	4.2 Ah	5 pieces	25 pieces	0.50 kg
Accu-NiCd 5C 55	89800090	2 + 3	4.5 Ah	5 pieces	25 pieces	0.60 kg
Accu-NiCd 6C	89895963	3 + 3	4.2 Ah	5 pieces	25 pieces	0.80 kg
<b>NiCd D cells – side by side</b>						
Accu-NiCd 3B	89895976	3 x 1	4.2 Ah	5 pieces	25 pieces	0.40 kg
Accu-NiCd 4B	89895977	4 x 1	4.2 Ah	5 pieces	25 pieces	0.55 kg
<b>NiCd Cs cells – stick</b>						
Accu-NiCd C 3A	89899743	3	1.6 Ah	5 pieces	25 pieces	0.14 kg
Accu-NiCd C 4A	89899692	1 x 4	1.6 Ah	5 pieces	25 pieces	0.18 kg
Accu-NiCd C 5A	89899695	1 x 5	1.6 Ah	5 pieces	25 pieces	0.25 kg
Accu-NiCd C 6A	89899698	1 x 6	1.6 Ah	5 pieces	25 pieces	0.30 kg
<b>NiCd Cs cells – stick + stick</b>						
Accu-NiCd C 4C	89899694	2 + 2	1.6 Ah	5 pieces	25 pieces	0.20 kg
Accu-NiCd C 5C	89899697	3 + 2	1.6 Ah	5 pieces	25 pieces	0.25 kg
Accu-NiCd C 6C	89899699	3 + 3	1.6 Ah	5 pieces	25 pieces	0.30 kg
<b>NiCd Cs cells – side by side</b>						
Accu-NiCd C 4B	89899693	4 x 1	1.6 Ah	5 pieces	25 pieces	0.20 kg
Accu-NiCd C 5B	89899696	5 x 1	1.6 Ah	5 pieces	25 pieces	0.25 kg

Specific technical data

Type <sup>①</sup>	Number of cells	Capacity	Article number	Figure	Length L	Hole spacing D	Width B	Height H
<b>NiCd D cells – stick</b>								
Accu-NiCd 2A 55	2	4.5 Ah	89800092	1	152 mm	140 mm	36 mm	35 mm
Accu-NiCd 3A	3	4.2 Ah	89895960	1	210 mm	198 mm	36 mm	35 mm
Accu-NiCd 4A 55	4	4.5 Ah	89800089	1	269 mm	257 mm	36 mm	35 mm
Accu-NiCd 5A	5	4.2 Ah	89895973	1	328 mm	316 mm	36 mm	35 mm
<b>NiCd D cells – stick + stick</b>								
Accu-NiCd 4C	4	4.2 Ah	89895978	2	152 mm	140 mm	36 mm	35 mm
Accu-NiCd 5C 55	5	4.5 Ah	89800090	2	152 + 210 mm	140 + 198 mm	36 mm	35 mm
Accu-NiCd 6C	6	4.2 Ah	89895963	2	210 mm	198 mm	36 mm	35 mm
<b>NiCd D cells – side by side</b>								
Accu-NiCd 3B	3	4.2 Ah	89895976	3	98 mm	40 x 33 mm	65 mm	35 mm
Accu-NiCd 4B	4	4.2 Ah	89895977	3	130 mm	40 x 66 mm	65 mm	35 mm
<b>NiCd Cs cells – stick</b>								
Accu-NiCd C 3A	3	1.6 Ah	89899743	1	164 mm	152 mm	26 mm	26 mm
Accu-NiCd C 4A	4	1.6 Ah	89899692	1	206 mm	194 mm	26 mm	26 mm
Accu-NiCd C 5A	5	1.6 Ah	89899695	1	249 mm	237 mm	26 mm	26 mm
Accu-NiCd C 6A	6	1.6 Ah	89899698	1	292 mm	280 mm	26 mm	26 mm
<b>NiCd Cs cells – stick + stick</b>								
Accu-NiCd C 4C	4	1.6 Ah	89899694	2	121 mm	109 mm	26 mm	26 mm
Accu-NiCd C 5C	5	1.6 Ah	89899697	2	164 + 121 mm	152 + 109 mm	26 mm	26 mm
Accu-NiCd C 6C	6	1.6 Ah	89899699	2	164 mm	152 mm	26 mm	26 mm
<b>NiCd Cs cells – side by side</b>								
Accu-NiCd C 4B	4	1.6 Ah	89899693	3	148 mm	40 x 96 mm	54 mm	25 mm
Accu-NiCd C 5B	5	1.6 Ah	89899696	3	148 mm	40 x 96 mm	54 mm	25 mm

① Art. no. 89895960, 89895963, 89895973, 89895978 on request.



NEW

**NiCd Accu 4.0 Ah for 50 °C**  
Nickel-Cadmium cells (NiCd)

**Product description**

- High-temperature NiCd cells for use with emergency lighting units

**Properties**

- Constant high-temperature operation at 50 °C
  - Good charging properties at high temperature
  - High energy maintenance of the charged battery
  - 4-year life in operation
  - Certified quality manufacturer
  - In various configurations
  - Simple connection with blade terminal
  - With polycarbonate fixing caps and connecting cable
  - Electrical connection with mounted end caps possible
  - Complies with IEC 61951-2 (constant charging load test)
  - Suitable for emergency lighting equipment as per IEC 60598-2-22
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



Figure 1: stick

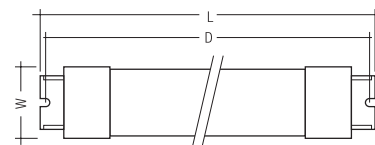
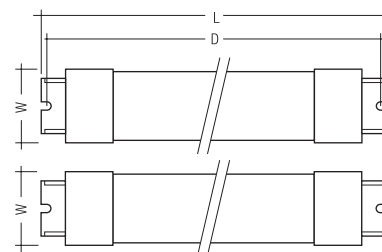


Figure 2: stick + stick



Standards, page 297

**Technical data**

Battery voltage per cell	1.2 V
Battery case temperature (for a life of 4 years)	0 ... +50 °C
Max. short term temperature (reduced lifetime)	70 °C

**Ordering data**

Type	Article number	Number of cells	Capacity	Packaging, carton	Packaging, outer box	Weight per pcs.
<b>NiCd 4.0 Ah D cells – stick</b>						
Accu-NiCd 3A 50	89800084	1 x 3	4.0 Ah	5 pieces	25 pieces	0.40 kg
Accu-NiCd 4A 50	89800085	1 x 4	4.0 Ah	5 pieces	25 pieces	0.50 kg
Accu-NiCd 5A 50	89800086	1 x 5	4.0 Ah	5 pieces	25 pieces	0.60 kg
<b>NiCd 4.0 Ah D cells – stick + stick</b>						
Accu-NiCd 5C 50	89800087	2 + 3	4.0 Ah	5 pieces	25 pieces	0.60 kg
Accu-NiCd 6C 50	89800088	3 + 3	4.0 Ah	5 pieces	25 pieces	0.70 kg

**Specific technical data**

Type	Number of cells	Capacity	Article number	Figure	Length L	Hole spacing D	Width B	Height H
<b>NiCd 4.0 Ah D cells – stick</b>								
Accu-NiCd 3A 50	3	4.0 Ah	89800084	1	210 mm	198 mm	36 mm	35 mm
Accu-NiCd 4A 50	4	4.0 Ah	89800085	1	269 mm	257 mm	36 mm	35 mm
Accu-NiCd 5A 50	5	4.0 Ah	89800086	1	328 mm	316 mm	36 mm	35 mm
<b>NiCd 4.0 Ah D cells – stick + stick</b>								
Accu-NiCd 5C 50	5	4.0 Ah	89800087	2	152 + 210 mm	140 + 198 mm	36 mm	35 mm
Accu-NiCd 6C 50	6	4.0 Ah	89800088	2	210 mm	198 mm	36 mm	35 mm





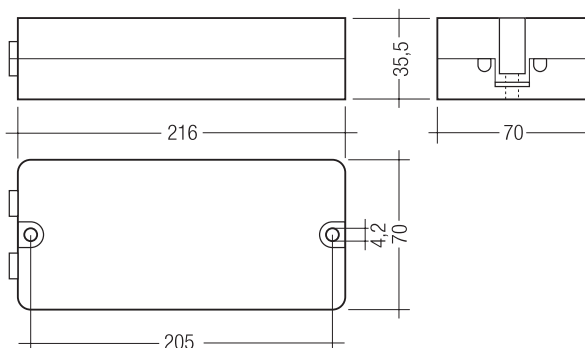
**NiCd Battery pack 1.6 – 4.5 Ah for 55 °C**  
Nickel-Cadmium cells (NiCd)

**Product description**

- High-temperature NiCd battery pack for use with emergency lighting units

**Properties**

- Constant high-temperature operation at 55 °C
  - Good charging properties at high temperature
  - High energy maintenance of the charged battery
  - 4 year life in operation at max. temperature
  - Certified quality manufacturer
  - Casing material made of polycarbonate
  - 1.0 m integrated double-insulated cable
  - 1.0 mm<sup>2</sup> solid wire, pre-stripped
  - Complies with IEC 61951-2 (constant charging load test)
  - Suitable for emergency lighting equipment as per IEC 60598-2-22
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



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**Technical data**

Battery voltage per cell	1.2 V
Dimensions L x W x H	216 x 70 x 37 mm
Cell temperature (life of 4 years)	0 ... +55 °C
Casing temperature tc	0 ... +45 °C
Temperature range of battery (NiCd) at tc point	0 ... +40 °C

**Ordering data**

Type	Article number	Number of cells	Capacity	Packaging, carton	Packaging, outer box	Weight per pcs.
<b>1.6 Ah battery pack</b>						
Pack-NiCd 3C	89899676	3	1.6 Ah	5 pieces	10 pieces	0.30 kg
Pack-NiCd 4C	89899677	4	1.6 Ah	5 pieces	10 pieces	0.34 kg
Pack-NiCd 6C	89899679	6	1.6 Ah	5 pieces	10 pieces	0.43 kg
<b>4.0 Ah battery pack</b>						
Pack-NiCd 3D	89899672	3	4.2 Ah	5 pieces	25 pieces	0.53 kg
Pack-NiCd 4D	89899673	4	4.2 Ah	5 pieces	25 pieces	0.66 kg
Pack-NiCd 5D 55	89800091	5	4.5 Ah	5 pieces	25 pieces	0.78 kg
Pack-NiCd 6D	89899675	6	4.2 Ah	5 pieces	25 pieces	0.91 kg



**NiMH Accus 2.0 – 4.0 Ah for 45 – 55 °C**  
Nickel-Metal Hydride cells (NiMH)

**Product description**

- High-temperature NiMH cells for use with emergency lighting units

**Properties**

- Cadmium free
  - Constant high-temperature operation at 55 °C (2.0 Ah) or 45 °C / 50 °C (4.0 Ah) – depending on the emergency lighting unit used
  - Low profile, cross-section 22 mm (without end caps)
  - Good charging properties at high temperature
  - High energy maintenance of the charged battery
  - 4-year life in operation
  - Certified quality manufacturer
  - In various configurations
  - Simple connection with blade terminal
  - With polycarbonate fixing caps and connecting cable
  - Electrical connection with mounted end caps possible
  - Complies with IEC 61951-2 (constant charging load test)
  - Suitable for emergency lighting equipment as per IEC 60598-2-22
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



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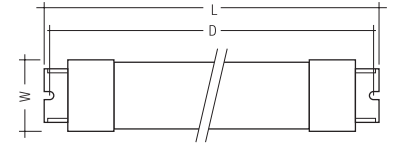


Figure 1: stick

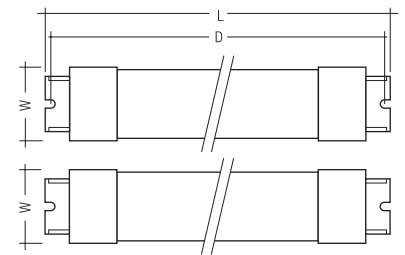


Figure 2: stick + stick

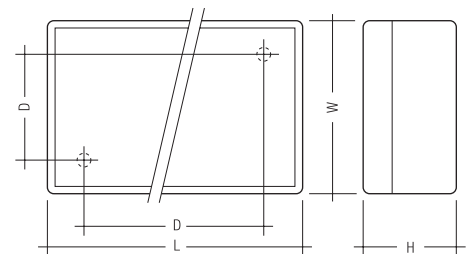


Figure 3: side by side

**Technical data**

Battery voltage per cell	1.2 V
Battery casing temp. 2.0 Ah Cs (life of 4 years)	0 ... +55 °C
Battery casing temp. 4.0 Ah Cs (life of 4 years)	0 ... +45 / +50 °C depending on the emergency lighting unit used

Ordering data

Type	Article number	Number of cells	Capacity	Packaging, carton	Packaging, outer box	Weight per pcs.
<b>NiMH Cs cells – stick</b>						
Accu-NiMH 4Ah C 3A	89899854	1 x 3	4.0 Ah	5 pieces	25 pieces	0.25 kg
Accu-NiMH 4Ah C 4A	89899850	1 x 4	4.0 Ah	5 pieces	25 pieces	0.30 kg
Accu-NiMH 4Ah C 5A	89899851	1 x 5	4.0 Ah	5 pieces	25 pieces	0.40 kg
Accu-NiMH 4Ah C 6A	89899852	1 x 6	4.0 Ah	5 pieces	25 pieces	0.45 kg
Accu-NiMH C 2A	89899755	1 x 2	2.0 Ah	5 pieces	25 pieces	0.10 kg
Accu-NiMH C 3A	89899744	1 x 3	2.0 Ah	5 pieces	25 pieces	0.15 kg
Accu-NiMH C 4A	89899700	1 x 4	2.0 Ah	5 pieces	25 pieces	0.20 kg
Accu-NiMH C 5A	89899703	1 x 5	2.0 Ah	5 pieces	25 pieces	0.25 kg
Accu-NiMH C 6A	89899706	1 x 6	2.0 Ah	5 pieces	25 pieces	0.30 kg
<b>NiMH Cs cells – stick + stick</b>						
Accu-NiMH 4Ah C 6C	89899853	3 + 3	4.0 Ah	5 pieces	25 pieces	0.45 kg
Accu-NiMH C 6C	89899707	3 + 3	2.0 Ah	5 pieces	25 pieces	0.30 kg
<b>NiMH Cs cells – side by side</b>						
Accu-NiMH C 5B	89899704	5 x 1	2.0 Ah	5 pieces	25 pieces	0.25 kg

Specific technical data

Type	Number of cells	Capacity	Article number	Figure	Length L	Hole spacing D	Width B	Height H
<b>NiMH Cs cells – stick</b>								
Accu-NiMH 4Ah C 3A	3	4.0 Ah	89899854	1	215 mm	203 mm	26 mm	26 mm
Accu-NiMH 4Ah C 4A	4	4.0 Ah	89899850	1	275 mm	263 mm	26 mm	26 mm
Accu-NiMH 4Ah C 5A	5	4.0 Ah	89899851	1	335 mm	323 mm	26 mm	26 mm
Accu-NiMH 4Ah C 6A	6	4.0 Ah	89899852	1	395 mm	383 mm	26 mm	26 mm
Accu-NiMH C 2A	2	2.0 Ah	89899755	1	119 mm	104 mm	26 mm	26 mm
Accu-NiMH C 3A	3	2.0 Ah	89899744	1	164 mm	152 mm	26 mm	26 mm
Accu-NiMH C 4A	4	2.0 Ah	89899700	1	206 mm	194 mm	26 mm	26 mm
Accu-NiMH C 5A	5	2.0 Ah	89899703	1	249 mm	237 mm	26 mm	26 mm
Accu-NiMH C 6A	6	2.0 Ah	89899706	1	292 mm	280 mm	26 mm	26 mm
<b>NiMH Cs cells – stick + stick</b>								
Accu-NiMH 4Ah C 6C	6	4.0 Ah	89899853	2	215 mm	203 mm	26 mm	26 mm
Accu-NiMH C 6C	6	2.0 Ah	89899707	2	164 mm	152 mm	26 mm	26 mm
<b>NiMH Cs cells – side by side</b>								
Accu-NiMH C 5B	5	2.0 Ah	89899704	3	148 mm	40 x 96 mm	54 mm	25 mm



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<b>Multi-sensor for DALI system</b>	
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**SMART sensors****Ambient light sensor and presence detector for constant lighting control**

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**basicDIM****Ambient light sensor and motion detector for constant lighting control**

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**DSI control units****Modular lighting control for 3 DSI channels**

modularDIM Basic	Page 435
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modularDIM DM (accessory for Basic)	Page 437
modularDIM LC (accessory for Basic)	Page 438

**Control module for amplifying DSI signals and switch input**

DSI-V/T	Page 439
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**Automatic switching depending on presence and light value**

Smart SWITCH II	Page 440
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**DSI interface****Converter for 1...10 V to DSI signals**

DSI-A/D	Page 441
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**Converter for KNX- and LON- to DSI signals**

KNX DSI/S 6CH	Page 443
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**DSI actuator****Leading-edge and trailing-edge phase dimmers 40-1,000 VA with preset**

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**Relay module for switching ohmic loads**

DSI-RK	Page 446
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**Wiring diagrams and installation examples Page 447**





Product / function matrix

				Manual dimming	Presets / scenes	Motion detection	Daylight control / ambient light control	Remote control	Tunable white	Automatic scene control (sequence)	Time-controlled daily processes (scheduler)	Type of mounting: built-in	Type of mounting: surface-mount	Switching contact (relay)	SMART interface
System	Category	Type	Page												
DALI	DALI sensors	DALI MSensor 02	Page 390		•	•	•	•				•	•		
	DALI control modules	DALI GC/GC-A	Page 392	•								•			
		DALI SC/SC-A	Page 393		•							•			
		DALI MC	Page 394	•	•					•		•			
		DALI TOUCHPANEL 02	Page 395	•	•					•			•		
		DALI x/e-touchPANEL 02	Page 396	•	•					•	•	•	•		
		DALI SQM	Page 397								•		•		
SMART		SMART Sensor	Page 411			•	•	•			•			•	
basicDIM		basicDIM ILD	Page 421	•		•	•	•				•			
		basicDIM RCL	Page 424	•		•	•					•			
		basicDIM RCL DBC	Page 427	•		•	•					•			
		DSI-SMART PTM	Page 430	•		•	•					•	•		
		smartDIM SM Ip	Page 432	•		•	•					•		•	
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		DSI-A/D	Page 441	•			•					•			
Sensor		Smart SWITCH II	Page 440			•					•		•		

## luxCONTROL lighting control systems

### Intelligent lighting control

The right light in the right amount at the right place – this saves energy and creates an individual level of lighting comfort that promotes a feeling of well-being. luxCONTROL components from Tridonic provide the basis for innovative and tailor-made lighting solutions in which maximum energy efficiency is combined with optimum functionality for the specific application. luxCONTROL represents the next generation of lighting management for modern lighting systems with daylight-dependent control, spectacular lighting moods and impressive colour chases.

Intelligent luxCONTROL systems are characterised by the optimum interplay of controller, sensors, controls, electronic ballasts and lamps. They are perfectly tailored to work with digital dimmable PCA EXCEL one4all, PCA ECO and PCA BASIC ballasts, TE one4all electronic transformers, digital PCI FOX ballasts, TALEX converters for LED modules and EM PRO emergency lighting units.

### Task-specific lighting management

With luxCONTROL all the lighting tasks are performed with the versions that are ecologically, economically and functionally the most attractive. Integrated solutions enable manufacturers to produce cost-effective energy-saving luminaires. Lighting planners and installers can use the right configuration based on an extensive range of equipment to suit the specific task and the required lighting design.

Tried and tested DSI technology (Digital Serial Interface) and the DALI interface protocol (Digital Addressable Lighting Interface) offer impressive flexibility – from individual intelligent luminaires and large room installations to lighting concepts for buildings that can even be linked to emergency lighting systems to provide a total package.

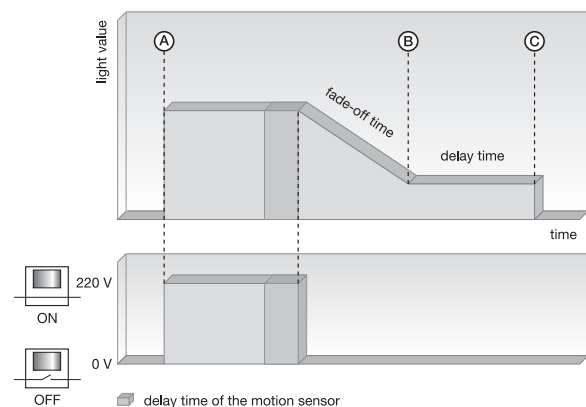
### Ballasts from Tridonic: the simplest form of lighting management

switchDIM applications use the mains voltage as the control signal for the digital dimmable ballasts from Tridonic. This is the simplest form of lighting management, which makes switchDIM uncomplicated, cost-effective and extremely user-friendly. Only simple conventional mains voltage switches are therefore needed to dim and switch the lighting system from several locations. For more information go to page 74.



### Safe passage with integrated corridorFUNCTION

In presence-controlled lighting systems the corridorFUNCTION integrated in dimmable ballasts from Tridonic provides a new level of energy efficiency, safety and comfort. Instead of being switched-off abruptly if no movement is detected in stairwells, corridors, underground car parks or entrance halls, the lighting is dimmed to a low level and then switched-off after a delay of one minute. As soon as someone enters the room the light is switched back up to its full level.



corridorFUNCTION – huge benefits in terms of energy efficiency, safety and comfort. Within a user-definable time window (fade-off time) the lighting is dimmed to a low level (B) and switched-off after a certain dwell time (C). Alternatively the lighting can remain at this low background level.

### **SMART sensors – elements of a cost-effective constant lighting solution**

Simple, cost-effective and energy-efficient constant lighting systems can be produced on the basis of digital dimmable PCA EXCEL one4all, PCA ECO and PCA BASIC, ballasts. SMART sensors, which are connected to the ballasts via the Tridonic SMART Interface, register the available ambient light or the presence of a person in the room. The level of light can be regulated to a user-defined constant light value or the luminaire can be switched-off if there is no-one in the room.

The compact components are easy to integrate, enabling luminaire manufacturers to offer products with added intelligence without having to compromise on the freedom of optimum design. Further control inputs on the ballast enable the luminaires to be integrated in a complete lighting system.

### **DSI – simply functional**

To optimise the energy consumption of extensive groups of luminaires, for example in sports stadiums or factories, there are solutions based on the modularDIM system and the DSI digital interface. The attractive functions of a DSI lighting management system include simple programming of scenes and the option of common routing of the control line and mains power supply cabling in one duct. Digital transmission means no problems of interference and an identical dimming value for all the luminaires.

### **DALI – the established standard**

DALI enables up to 64 digital dimmable ballasts with one4all interfaces to be individually addressed on a single line, 16 groups to be assigned and 16 lighting scenes to be programmed. Regrouping is possible at any time without the need for costly rewiring, for example after renovation or a change of function for a room.

With individual addressability and status feedback, the DALI-based comfortDIM lighting control systems not only offer top-quality monitoring functions but

also open up new opportunities for developing high-quality lighting solutions because the various parameters can be easily programmed. With comfortDIM it is also possible for external systems such as louvre blind controllers to be integrated in the overall concept.

Other functions that have been implemented by Tridonic in ballasts with one4all interfaces and that go beyond the DALI standard contribute to greater lighting comfort and even greater energy savings.

### **Networked solutions**

The proDIM light management solution based on the Cluster Controller combines standardised DALI technology with the tried and tested TCP/IP internet protocol. This means that the lighting control system can be fully integrated in a building management system so everything can be controlled centrally with just one system.

### **Intelligent emergency lighting system**

Compact emergency lighting systems for up to 120 individually addressable DALI emergency lighting units are easily implemented with e-touch. The status report for the emergency lighting system can be retrieved locally via an infra-red interface or in a networked installation with EM LINK software (available free of charge) via a standard web browser (TCP/IP).

### **Technical information**

The latest technical information is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu “Technical data”, submenu “Data sheets”

### **Personal enquiries**

A form for personal enquiries is available on the internet at: [www.tridonic.com](http://www.tridonic.com), menu “Contact”, submenu “Contact form”



NEW

**DALI MSensor 02**  
Multi-sensor for DALI system

**Product description**

- Component of the comfortDIM system (DALI standalone)
  - With ambient light dependent control and presence detection
  - Simple group assignment via rotary switch
  - Multiple MSensors possible in a group
  - Can be remote controlled
  - Lighting control and presence detection can be deactivated
  - Individual adjustment of the parameters with configuration software
  - Multi-master compatible: Multiple control modules are possible in a DALI system
  - Power supply via DALI line
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Supply via	DALI cable
Current draw	6 mA from DALI
Operating temperature	0 ... +50 °C
Storage temperature	-25 ... +55 °C
Type of protection	IP20



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Wiring diagrams and installation examples, page 447



Fig. 1

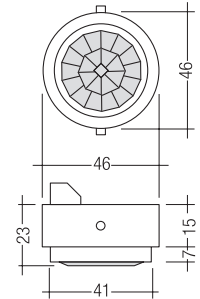


Fig. 2

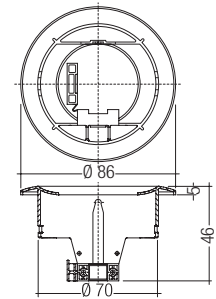


Fig. 3

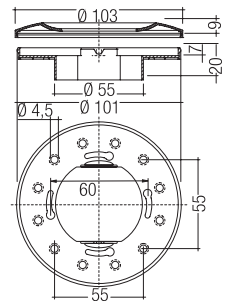
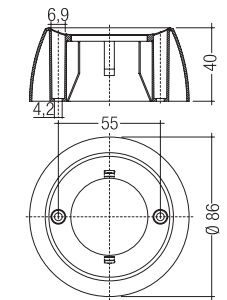


Fig. 4



**Ordering data**

Type	Article number	Figure	Packaging, carton
DALI MSensor 02 5DPI 41f Luminaire installation	86459305	1	1 piece
DALI MSensor 02 5DPI 41rc Ceiling installation	86459303	2	1 piece
DALI MSensor 02 5DPI 41w Box installation	86459304	3	1 piece
DALI MSensor 02 5DPI 41rs Surface mounting	86459302	4	1 piece

## Specific technical data

Type	Detection						
	Ø of detection range, mounted at a height of 2.5 m	Extension of the detection area <sup>①</sup>	Swivel design	Swivel range	Detection angle	Light measurement at the sensor head <sup>②</sup>	Infra-red control range
DALI MSensor 02 5DPI 41f	5 m	–	no	0°	360°	10 – 650 lx	5 m
DALI MSensor 02 5DPI 41rc	5 m	2 m	yes	±15°	360°	10 – 650 lx	5 m
DALI MSensor 02 5DPI 41w	5 m	2 m	yes	±15°	360°	10 – 650 lx	5 m
DALI MSensor 02 5DPI 41rs	5 m	–	no	0°	360°	10 – 650 lx	5 m

① If mounted at a height of 2.5 m and swivelled through 15 °.

② The measured value at the sensor head corresponds to approx. 15 to 2,000 lux on the surface measured.

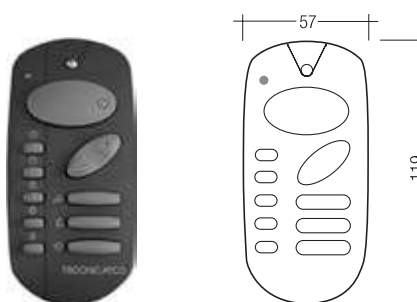
RoHS

ACCES-  
SORIES

## DALI RC

## Product description

- Optional infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activating automatic lighting control (sun/cloud button)
- Calling up two scenes
- Calling up five fixed light output values (100, 50, 25, 12 and 6 %)
- Individual adjustment of the button assignments with configuration software
- Setting the threshold control point
- With wall bracket



## Ordering data

Type	Article number	Packaging, carton
DALI-RC	86458263	1 piece

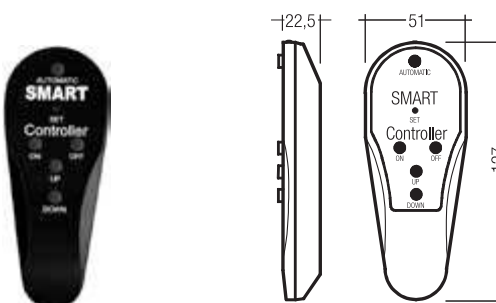
RoHS

ACCES-  
SORIES

## IR SMART Controller

## Product description

- Optional infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activation of automatic lighting control (Automatic button)
- Setting the threshold control point (Set button)



## Ordering data

Type	Article number	Packaging, carton
DSI-SMART Controller	86451922	1 piece



## DALI GC / DALI GC-A

Control module for 2 DALI groups

### Product description

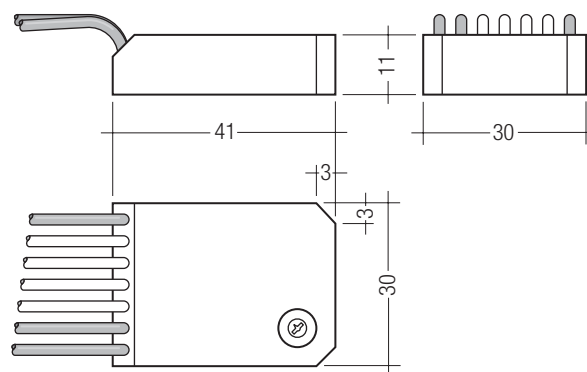
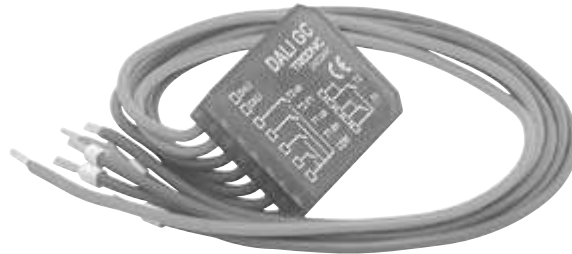
- Control module for standard momentary-action switch
- For sending dimming and switching commands to two DALI groups
- 2 momentary-action switch inputs
- DALI GC only: DALI devices can be addressed and assigned by means of a simple key sequence
- Rotary switch for selecting groups 1 – 16 or “broadcast”
- Multi-master compatible: Multiple control modules are possible in a DALI system
- Power supply via DALI line

### Note

- Wires to momentary-action switches must not be extended
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

### Technical data

Supply via	DALI cable
Current draw	6 mA from DALI
Input, 2 momentary-action switches	1-way / 2-way
Output	DALI
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



### Ordering data

Type	Article number	Packaging, carton
DALI GC	24033450	1 piece
DALI GC-A	24138907	1 piece



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## DALI SC / DALI SC-A

Control module for 4 DALI lighting scenes

### Product description

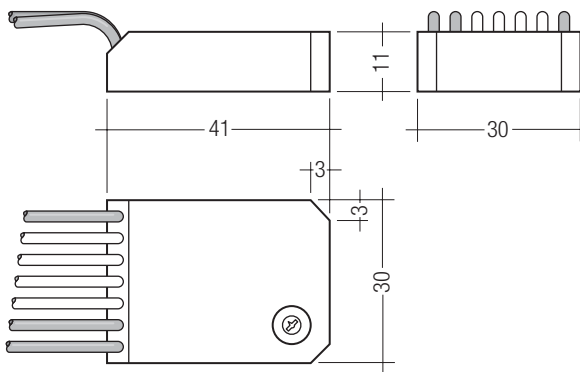
- Control module for standard momentary-action switch
- For calling up lighting scene values in DALI devices
- 4 momentary-action switch inputs
- DALI SC only: Lighting scene values in DALI devices can be programmed by means of a simple key sequence
- Rotary switch for selecting 4 DALI scenes 1 – 16
- Multi-master compatible: Multiple control modules are possible in a DALI system
- Power supply via DALI line

### Note

- Wires to momentary-action switches must not be extended
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

### Technical data

Supply via	DALI cable
Current draw	6 mA from DALI
Input, 4 momentary-action switches	single
Output	DALI
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



### Ordering data

Type	Article number	Packaging, carton
DALI SC	24034263	1 piece
DALI SC-A	24138906	1 piece



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## DALI MC

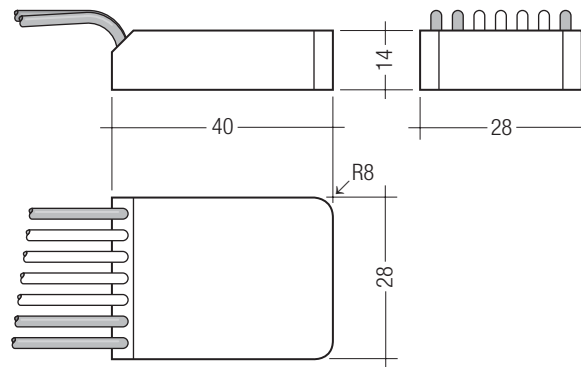
Control module with 4 freely programmable inputs

### Product description

- Control module with 4 inputs
  - User-definable switching modes
  - Each input can be individually set
  - Objective: Setting individual addresses 1 – 64, groups 1 – 16 or “broadcast”
  - Multi-master compatible: Multiple control modules are possible in a DALI system
  - Sequencer for 4 scenes
  - Stairwell function with 2 dimming levels
  - Power-up function for sending a preset command after a delay
  - Power supply via DALI line
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

### Technical data

Supply via	DALI cable
Current draw	6 mA from DALI
Input	4 momentary-action switches or relays
Output	DALI
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



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### Ordering data

Type	Article number	Packaging, carton
DALI MC	86458507	1 piece



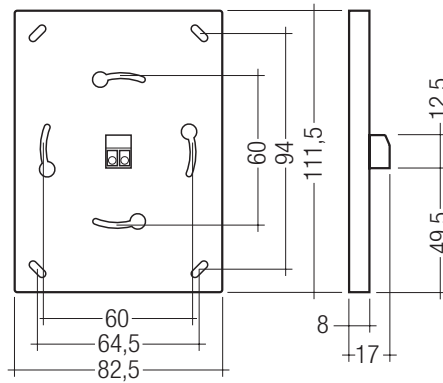


NEW

**DALI TOUCHPANEL 02**  
Operating and control unit

**Product description**

- Control panels and controllers for DALI systems
  - For controlling multiple luminaire groups and calling up preset lighting scenes
  - Flexible design: individual design can be used
  - Multi-master compatible: Multiple control modules are possible in a DALI system
  - Power supply via DALI line
  - Individual adjustment of the control panel and button assignments with configuration software
  - Setting group addresses 1 – 16 or “broadcast”
  - Setting scene addresses 1 – 16
  - Tunable white (device type 8) capable
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Supply via	DALI cable
Current draw	6 mA (max. 10 mA im service mode)
Output	DALI
Ambient temperature ta	0 ... +50 °C
Protection class	IP20



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**Ordering data**

Type	Article number	Packaging, carton
DALI TOUCHPANEL 02 white	28000022	1 piece



NEW

**DALI x/e-touchPANEL 02**  
Operating and control unit

**Product description**

DALI control system with 3 choosable modes:

- Light management
- Emergency lighting

**Properties**

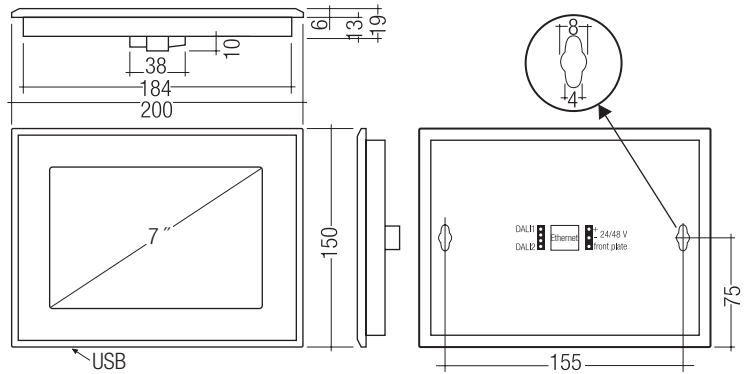
Light management:

- Lighting management system with up to 128 DALI ECGs
- Start-up, control and operating unit
- Colour touch screen (7")
- Background lighting with RGB LEDs
- Manual dimming and switching
- Manual scene recall or timed scene recall with a maximum of 99 sequences
- Tunable white (colour converter) control
- Weekday-controlled sequence programming (schedule)
- User-defined labelling of scenes, groups, sequences and schedules
- Optimised mode for RGB coloured light management
- Operation via a web browser (Ethernet)

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

**Technical data**

Rated supply voltage mains adapter	230 – 240 V
Mains frequency mains adapter	50 / 60 Hz
Rated supply voltage DALI x/e-touchPANEL 02	24 – 48 V DC
Power	10 W
Number of DALI circuits	2
Current consumption of each DALI line	2 mA
Ambient temperature $t_a$	0 ... +50 °C
Touchscreen size	7"
Touchscreen pixel	800 x 480
Colours	64K
Interface	USB, Ethernet
Dimensions L x W x H	200 x 150 x 20 mm
Distance between mounting holes (D)	155 mm
Type of protection	IP20
Protection class	I



**Ordering data**

Type	Article number	Packaging, carton
DALI x/e-touchPANEL 02	28000005	1 piece



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## DALI SQM

Sequencer module for DALI systems

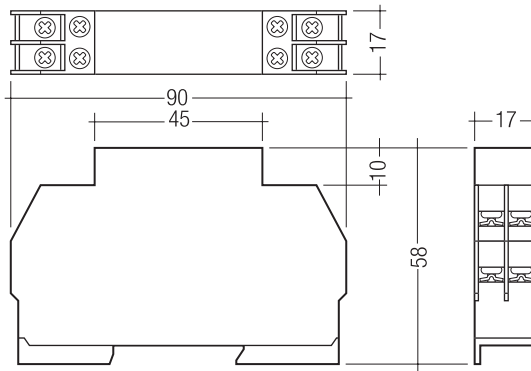
### Product description

- Sequencer module for DALI systems
  - Continual transmission of DALI signals (step time)
  - Calling up scenes 0 – 15
  - End scene programmable
  - Power supply via DALI line
  - Rotary switch: 1 s to 30 min
  - For installation in switching cabinets
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



### Technical data

Supply via	DALI cable
Current draw	9 mA from DALI
Input	Rotary switch, 1 s – 30 min. Function switch: max. cable length 100 m
Output	DALI
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



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### Ordering data

Type	Article number	Packaging, carton
DALI SQM	86458211	1 piece



### DALI PS

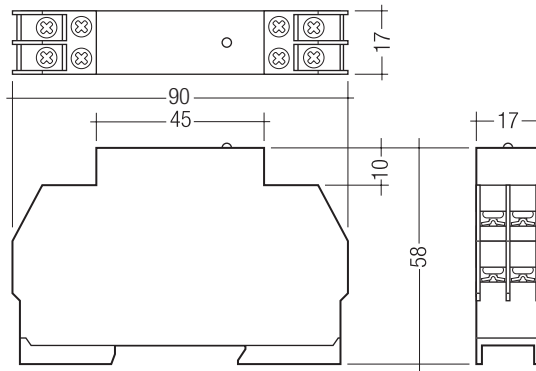
DALI power supply for installation in switch cabinet

#### Product description

- For supplying 200 mA for DALI devices or control modules without their own power supplies
  - For installation in switching cabinets
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

#### Technical data

Rated supply voltage	120 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Output	DALI
Max. output current, DALI	200 mA
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



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#### Ordering data

Type	Article number	Packaging, carton
DALI PS	24033444	1 piece



### DALI PS2

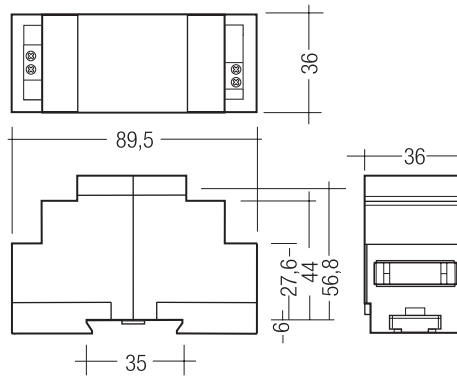
DALI power supply for installation in switch cabinet

#### Product description

- For supplying 240 mA for DALI devices or control modules without their own power supplies
  - For installation in switching cabinets
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	5 W
Max. output current, DALI	240 mA
Operating temperature	0 ... +50 °C
Storage temperature	0 ... +70 °C
Type of protection	IP20



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#### Ordering data

Type	Article number	Packaging, carton
DALI PS2	86458559	1 piece

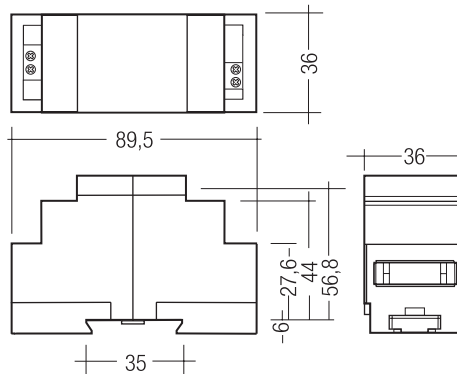


### DALI PS2 standby

DALI power supply for installation in switchgear cabinets and standby function

#### Product description

- For supplying 240 mA for DALI devices or control modules without their own power supplies
  - For installation in switching cabinets
  - Automatic monitoring of the connected luminaires
  - The built-in relay isolates the connected equipment from the power supply via an external contactor if all the luminaires are switched off
  - The ballasts are switched on and set to the required status via DALI commands
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	5 W
Max. output current, DALI	240 mA
Operating temperature	0 ... +50 °C
Storage temperature	0 ... +70 °C
Type of protection	IP20



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#### Ordering data

Type	Article number	Packaging, carton
DALI PS2 Standby	86458560	1 piece

#### Specific technical data

Type	Output, relay				
	Max. switching voltage AC	Max. switching current	DC switching capability at 100 – 250 V DC	DC switching capability at 50 – 100 V DC	DC switching capability at 0 – 50 V DC
DALI PS2 Standby	250 V	1 A	0.3 A	0.5 A	1 A



### DALI PS1

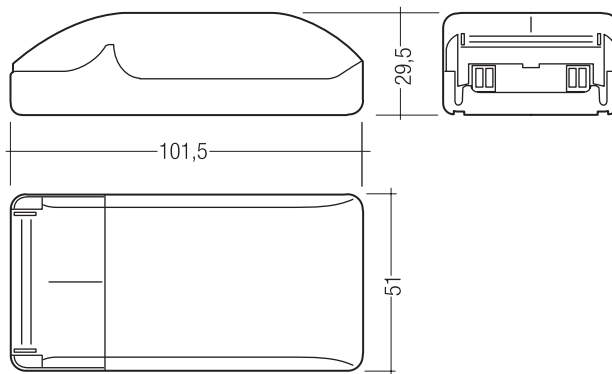
DALI power supply for separate installation

#### Product description

- For supplying 200 mA for DALI devices or control modules without their own power supplies
  - Surface-mounted casing
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

#### Technical data

Rated supply voltage	120 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Output	DALI
Max. output current, DALI	200 mA
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



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#### Ordering data

Type	Article number	Packaging, carton
DALI PS1	24034323	1 piece



## DALI USB

PC interface module for DALI systems

### Product description

- Interface module from USB to a DALI system
  - For connecting Tridonic software tools
  - Addressing, programming and parametrising DALI installations and Tridonic devices
  - Power supply via DALI line and USB interface
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

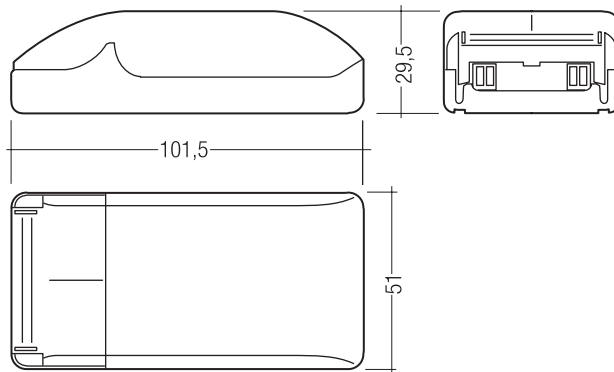
### Technical data

Supply via	DALI cable and USB interface
Current draw	6 mA from DALI
Input	1 USB (Personal Computer)
Output	DALI
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



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### Ordering data

Type	Article number	Packaging, carton
DALI USB	24138923	1 pieces





**DALI DSI**  
Converter for DALI into DSI signals

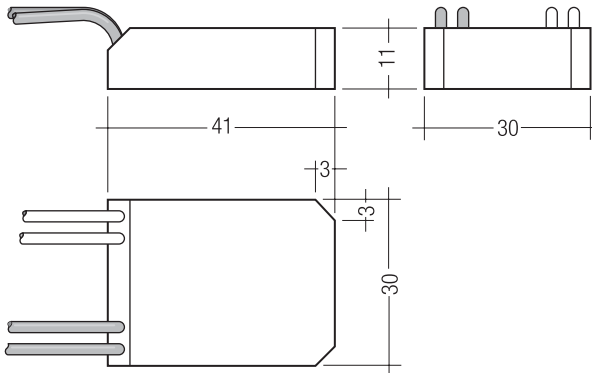
**Product description**

- Converter for converting DALI signals into DSI signals
  - For integrating DSI-based devices in DALI lighting control systems
  - Rotary switch for assigning the group address for the DSI output
  - 1 DSI output for a maximum of 5 DSI devices
  - Power supply via DALI line
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Supply via	DALI cable
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



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**Ordering data**

Type	Article number	Packaging, carton
DALI DSI	24034689	1 pieces

**Specific technical data**

Type	Inputs			Outputs	
	DALI control input	Current draw	Number of DALI addresses	Digital control line DSI	Control output per physical output (devices)
DALI DSI	1	16 mA from DALI	1	1	5



### DALI DSI II

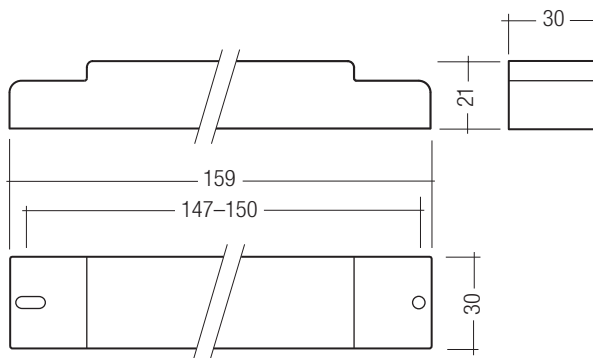
Converter for DALI into DSI signals

#### Product description

- Converter for converting DALI signals into DSI signals
  - For integrating DSI-based devices in DALI lighting control systems
  - 1 DALI input, 2 DSI outputs
  - A DALI address can be assigned to each DSI output
  - Rotary selector switch for assigning two group addresses for the two DSI outputs
  - 25 DSI devices can be controlled per output
  - Integrated power supply
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

#### Technical data

Rated supply voltage	120 – 277 V
Mains frequency	50 / 60 Hz
Power	< 1 W
Ambient temperature $t_a$	0 ... +60 °C
Protection class	IP20



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#### Ordering data

Type	Article number	Packaging, carton	Packaging, carton
DALI-DSI II	86458691	1 piece	10 piece

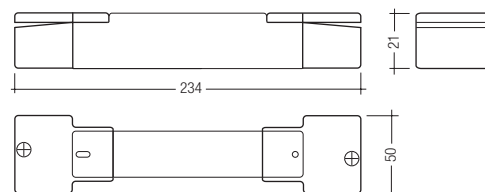
#### Specific technical data

Type	Inputs			Outputs		
	DALI control input	Current draw	Number of DALI addresses	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup>
DALI-DSI II	1	2 mA from DALI	2	2	25	250 m

RoHS

ACCES-  
SORIES

### Strain-relief set



#### Ordering data

Type	Article number	Packaging, carton
Strain-relief set	86458689	1 piece



## DALI Repeater

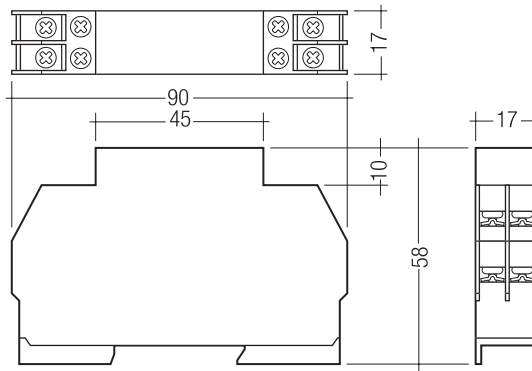
Extension of DALI cable length

### Product description

- For amplifying the DALI signal
- For extending the DALI line length from 300 to 600 m
- A star-type network with multiple DALI Repeater can be set up
- Power supply via DALI line
- For installation in switching cabinets

### Note

- Because of the signal delay it is not possible to connect multiple DALI Repeater in series (no cascading)
  - There is no increase in the maximum number of DALI units. A maximum of 64 DALI addresses can be configured in a DALI circuit (main and subordinate circuit)
  - Because of the electrical isolation between the main circuit and the subordinate circuit an additional DALI power supply unit is needed for each DALI Repeater
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



### Technical data

Supply via	DALI cable
Current draw for main control circuit (IN)	6 mA from DALI
Current draw for subordinate control circuit (OUT)	4 mA from DALI
Input	DALI
Output	DALI
Operating temperature	0 ... +50 °C
Storage temperature	-20 ... +70 °C
Type of protection	IP20

### Ordering data

Type	Article number	Packaging, carton
DALI Repeater	86458401	1 piece



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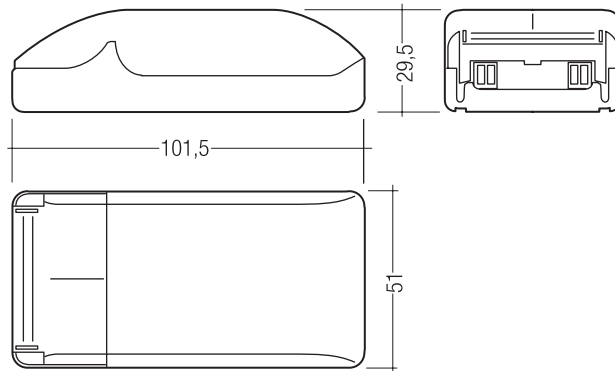


### DALI Somfy animeo interface

Control module for Somfy motor control unit

#### Product description

- For integrating Somfy animeo IB+ motor controllers in the DALI circuit
  - Lighting moods and louvre blind positions can be recalled together
  - For animeo IB+ 4 AC motor controller (1860049, 1860081, 1860103, 1860108), animeo IB+ 4 DC motor controller (1860086), animeo IB+ 4 DC/DC-E motor controller (1860087)
  - Compatible with DALI GC-A, DALI SC and SC-A, DALI MC, DALI TOUCHPANEL 02, DALI USB and x/e-touchPANEL 02 (Version 3.00 and higher)
  - For 4 louvre blinds (4 DALI addresses therefore required)
  - Support for 16 DALI groups and 16 DALI scenes
  - Louvre blind is started up (e.g. travel) via the Somfy animeo IB+ motor controller
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Operating temperature	0 ... +50 °C
Storage temperature	-20 ... +70 °C
Type of protection	IP20

#### Ordering data

Type	Article number	Packaging, carton
DALI-Somfy animeo Interface	86458491	1 pieces



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#### Specific technical data

Type	Inputs			Outputs	
	DALI control input	Current draw	Number of DALI addresses	Control output	Output, maximum number of controllable motors
DALI-Somfy animeo Interface	1	6 mA from DALI	4 (one per motor)	Somfy motor controller protocol	4



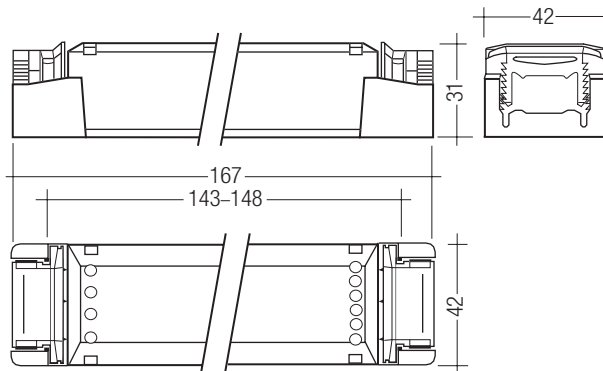
**DALI 3-RM-C**  
DALI control module for 3 relays

**Product description**

- Control of up to three standard 24 V DC contactors
  - 1 DALI address per output
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

**Technical data**

Input voltage, AC	198 – 254 V
Input voltage, DC	200 – 240 V
Mains frequency	0 / 50 / 60 Hz
Power	< 30 W
Ambient temperature $t_a$	-25 ... +45 °C
Type of protection	IP20



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**Ordering data**

Type	Article number	Packaging, carton	Packaging, carton
DALI 3-RM-C	86458247	1 piece	10 piece

**Specific technical data**

Type	Inputs			Outputs	
	DALI control input	Current draw	Number of DALI addresses	Output voltage, DC	Output power
DALI 3-RM-C	1	2 mA from DALI	3	3 x 24 V	25 W



NEW

**DALI-RM/S 4x10A**

DALI relay output with 4 independent 10 A switching contacts

**Product description**

- Switching of 4 independent and potential free contacts via DALI
  - Max. switching current per contact: 10 A at ohmic load ( $\cos \Phi = 1$ )
  - 1 DALI address per switching contact
  - For installation in switching cabinets
  - Status LED for indicating the operating status
  - Test switch for installation test
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



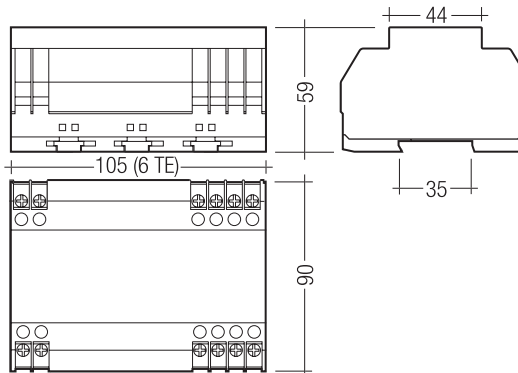
**Technical data**

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	< 2 W
Ambient temperature $t_a$	0 ... +50 °C
Storage temperature	-20 ... +70 °C
Humidity <sup>①</sup>	5 % ... max. 85 %
Type of protection	IP20
Weight per pcs.	0.4 kg



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**Ordering data**

Type	Article number	Packaging, carton
DALI-RM/S 4x10A	22185237	1 piece

**Specific technical data**

Type	Inputs			Output, relay		
	DALI control input	Current draw	Number of DALI addresses	Relay, floating	Switching output (at 125 V DC max.) <sup>②</sup>	Switching output (at 240 V AC max.) <sup>②</sup>
DALI-RM/S 4x10A	1	2 mA from DALI	4 (1 per contact)	4 (make contact)	30 W (ohmic load)	2,000 W / 10 A (ohmic load)

<sup>①</sup> Not condensed (max. 56 days/year at 85 %).

<sup>②</sup> More loads see data sheet.



### DALI PCD 300 one4all

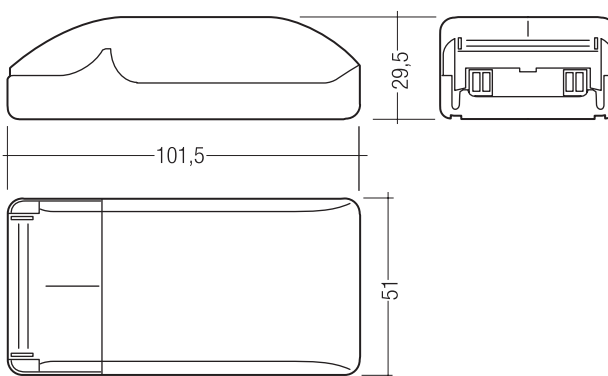
Leading-edge/trailing-edge phase dimmer

#### Product description

- Digital leading-edge and trailing-edge phase dimmer
  - Total connected load: 30 – 300 VA
  - one4all input: DALI, DSI and switchDIM input
  - 1 dimmed phase (output)
  - With automatic load detection
  - Surface-mounted casing
  - Status LED for indicating the operating status
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Connected load	30 – 300 VA
Power loss	0.75 W (1.8 W at full load)
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



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#### Ordering data

Type	Article number	Packaging, carton
DALI-PCD 300 one4all	86458303	20 pieces

#### Specific technical data

Type	Inputs			Dimmed phase	Outputs		Terminals
	Input, DALI/DSI control input and switchDIM	Current draw	Number of DALI addresses		Control range, DSI	Control range, DALI	
DALI-PCD 300 one4all	1	2 mA from DALI	1	1	0; 1 – 100 %	0; 0.1 – 100 %	0.5 – 1.5 mm <sup>2</sup>

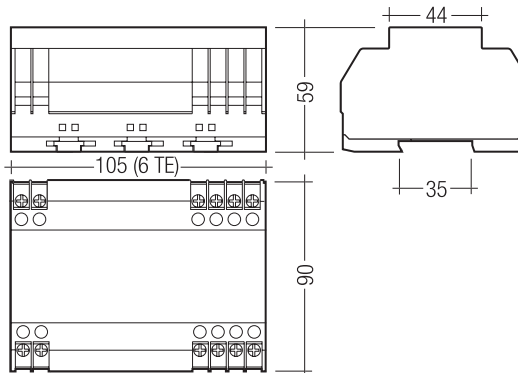


### DALI PCD/S

Leading-edge/trailing-edge phase dimmer

#### Product description

- Digital leading-edge and trailing-edge phase dimmer
  - Total connected load: 40 – 1,000 VA
  - DALI/DSI input
  - Single (switchDIM) or double momentary-action switch input
  - Preset function: storage and retrieval of any lighting value
  - 1 dimmed phase (output)
  - With automatic load detection
  - For installation in switching cabinets
  - Status LED for indicating the operating status
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Connected load	40 – 1,000 VA
Power loss	2 W (15 W at full load)
Ambient temperature $t_a$	0 ... +40 °C
Type of protection	IP20



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#### Ordering data

Type	Article number	Packaging, carton
DALI-PCD/S	22154332	1 piece

#### Specific technical data

Type	Inputs				Outputs			Terminals
	Momentary-action switch input for preset retrieval	Single or twin momentary-action switches	DALI/DSI control input	Current draw	Number of DALI addresses	Dimmed phase	Control range, output	
DALI-PCD/S	1	1	1	2 mA from DALI	1	1	0; 1 – 100 %	0.75 – 2.5 mm <sup>2</sup>



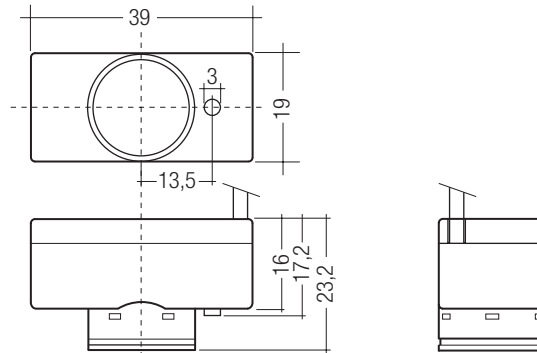


NEW

**SMART Sensor 5D 19f**  
Ambient light sensor for lighting control

**Product description**

- Optional ambient light sensor for PCA EXCEL one4all, PCA ECO and PCA BASIC devices from the xtec II generation
  - With ambient light dependent control
  - Simple setting of the set-point via integrated momentary-action switch at the sensor
  - Compact dimensions for luminaire installation
  - Simple cable connection to the ballast via SMART interface
  - Power supply via ballast
  - Fixing on lamp possible with lamp clip
  - Max. installation height 5 m
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



**Technical data**

Supply via	SMART interface
Current draw	1 mA from SMART interface
Operating temperature	0 ... +70 °C
Storage temperature	-20 ... +75 °C
Type of protection	IP20
Max. casing temperature tc	73 °C

**Ordering data**

Type	Article number	Packaging, bag
SMART Sensor 5D 19f	86459169	1 piece

Product matrix, page 387

Wiring diagrams and installation examples, page 447

**Specific technical data**

Type	Detection			Max. cable length	Control output (devices)
	Light detection angle symmetric	Light measurement at the sensor head <sup>①</sup>	Illuminance (factory default) <sup>②</sup>		
SMART Sensor 5D 19f	42 °	40 – 1,000 lx	500 lx	0.8 m	1

<sup>①</sup> The measured value at the sensor head corresponds to approx. 60 to 3,000 lux on the surface measured.

<sup>②</sup> The illuminance is set for a room defined by Tridonic. Depending on the actual room (reflectance) the measured illuminance may deviate from this value.

The illuminance should therefore be checked in the installation and adjusted if necessary.

RoHS

ACCES-  
SORIES

### SMART Sensor T5 Clip



#### Product description

- Mounting Clip for mounting the sensor directly to the lamp incl. mounting flange

#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor T5 Clip + Mounting Flange	86459343	10 pieces

RoHS

ACCES-  
SORIES

### SMART Sensor T8 Clip



#### Product description

- Mounting Clip for mounting the sensor directly to the lamp incl. mounting flange

#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor T8 Clip + Mounting Flange	86459344	10 pieces

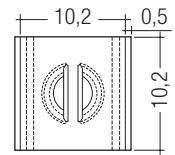
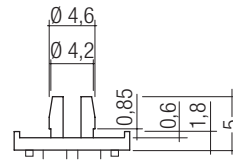
RoHS

ACCES-  
SORIES

### SMART Sensor Mounting Flange

#### Product description

- Mounting flange for connecting the sensor to the lamp clip
- Mounting flange for connecting the sensor directly to the luminaire housing



#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor Mounting Flange	86459328	50 pieces

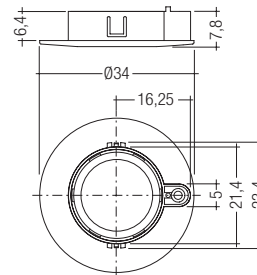
RoHS

ACCES-  
SORIES

### SMART Sensor Cover Frame

#### Product description

- Cover frame for attaching the sensor directly to the luminaire casing



#### Ordering data

Type	Article number	Packaging, bag
SMART Mounting Ring 5D(P)	86459427	50 pieces



NEW

### SMART Sensor 5DP 19f

Ambient light sensor and presence detector for lighting control

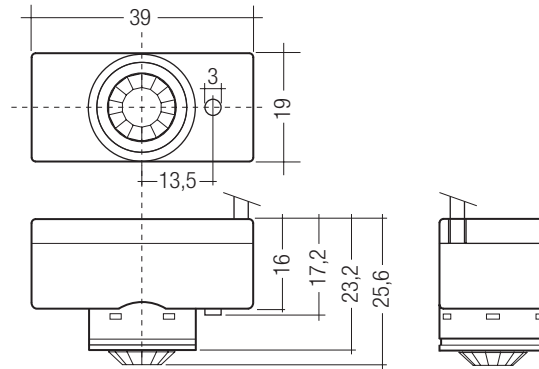
#### Product description

- Optional ambient light sensor and motion detector for PCA EXCEL one4all devices from the x!tec II generation
- Simple setting of the set-point via integrated momentary-action switch at the sensor
- Compact dimensions for luminaire installation
- Simple cable connection to the ballast via SMART interface
- Power supply via ballast
- Fixing on lamp possible with lamp clip
- Lighting control and presence detection can be deactivated
- Individual adjustment of the parameters with configuration software
- Max. installation height 5 m

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

#### Technical data

Supply via	SMART interface
Current draw	1 mA from SMART interface
Operating temperature	0 ... +60 °C
Storage temperature	-20 ... +65 °C
Type of protection	IP20
Max. casing temperature tc	63 °C



#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor 5DP 19f	86459170	1 piece



Product matrix, page 387

Wiring diagrams and installation examples, page 447

#### Specific technical data

Type	Detection				Max. cable length	Control output (devices)
	Light detection angle asymmetric	Light measurement at the sensor head <sup>①</sup>	Illuminance (factory default) <sup>②</sup>	Motion detection angle symmetric		
SMART Sensor 5DP 19f	31 °	40 – 1,000 lx	500 lx	92 °	0.8 m	1

<sup>①</sup> The measured value at the sensor head corresponds to approx. 60 to 3,000 lux on the surface measured.

<sup>②</sup> The illuminance is set for a room defined by Tridonic. Depending on the actual room (reflectance) the measured illuminance may deviate from this value.

The illuminance should therefore be checked in the installation and adjusted if necessary.

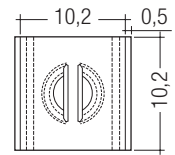
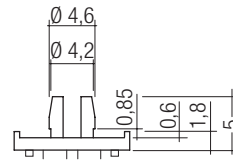
RoHS

ACCES-  
SORIES

### SMART Sensor Mounting Flange

#### Product description

- Mounting flange for connecting the sensor to the lamp clip
- Mounting flange for connecting the sensor directly to the luminaire housing



#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor Mounting Flange	86459328	50 pieces

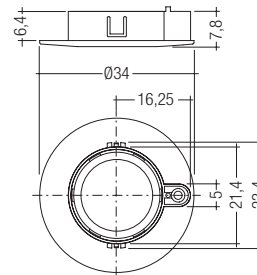
RoHS

ACCES-  
SORIES

### SMART Sensor Cover Frame

#### Product description

- Cover frame for attaching the sensor directly to the luminaire casing



#### Ordering data

Type	Article number	Packaging, bag
SMART Mounting Ring 5D(P)	86459427	50 pieces



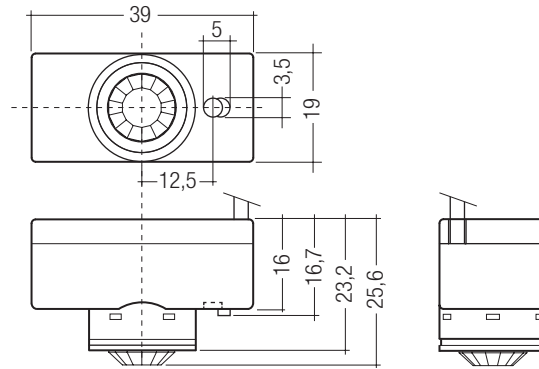
NEW

### SMART Sensor 5DPI 19f

Ambient light sensor and presence detector for lighting control

#### Product description

- Optional ambient light sensor and presence detector for PCA EXCEL one4all devices from the x!tec II generation
  - Can be remote controlled
  - Compact dimensions for luminaire installation
  - Simple cable connection to the ballast via SMART interface
  - Power supply via ballast
  - Fixing on lamp possible with lamp clip
  - Lighting control and presence detection can be deactivated
  - Individual adjustment of the parameters with configuration software
  - Optional with corridorFUNCTION profile
  - Optional connection with second ballast possible via accessory cable
  - Max. installation height 5 m
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Power supply via	SMART interface
Current draw	1 mA from SMART interface
Operating temperature	0 ... +60 °C
Storage temperature	-20 ... +65 °C
Type of protection	IP20
Max. casing temperature tc	63 °C

#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor 5DPI 19f	86459167	1 piece
SMART Sensor 5DPI 19f cF n.o.	86459327	1 piece
SMART Sensor 5DPI 19f cF 01	86459325	1 piece
SMART Sensor 5DPI 19f cF 30	86459326	1 piece



Product matrix, page 387

Wiring diagrams and installation examples, page 447

#### Specific technical data

Type	Detection				Max. cable length	Control output (devices)	corridorFUNCTION profile
	Light detection angle asymmetric	Light measurement at the sensor head <sup>①</sup>	Illuminance (factory default) <sup>②</sup>	Motion detection angle symmetric			
SMART Sensor 5DPI 19f	31°	40 – 1,000 lx	500 lx	92°	0.8 m	2	–
SMART Sensor 5DPI 19f cF n.o.	31°	40 – 1,000 lx	500 lx	92°	0.8 m	2	never off
SMART Sensor 5DPI 19f cF 01	31°	40 – 1,000 lx	500 lx	92°	0.8 m	2	switch-off 1 minute
SMART Sensor 5DPI 19f cF 30	31°	40 – 1,000 lx	500 lx	92°	0.8 m	2	switch-off 30 minutes

<sup>①</sup> The measured value at the sensor head corresponds to approx. 60 to 3,000 lux on the surface measured.

<sup>②</sup> The illuminance is set for a room defined by Tridonic. Depending on the actual room (reflectance) the measured illuminance may deviate from this value. The illuminance should therefore be checked in the installation and adjusted if necessary.

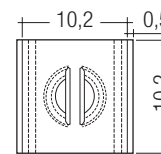
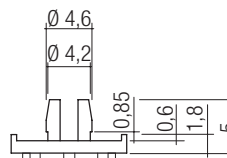
RoHS

ACCES-  
SORIES

### SMART Sensor Mounting Flange

#### Product description

- Mounting flange for connecting the sensor to the lamp clip
- Mounting flange for connecting the sensor directly to the luminaire housing



#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor Mounting Flange	86459328	50 pieces

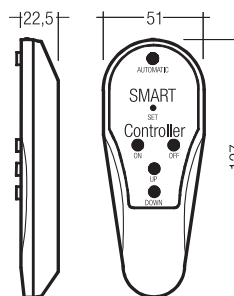
RoHS

ACCES-  
SORIES

### IR SMART Controller

#### Product description

- Optional infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activation of automatic lighting control (Automatic button)
- Setting the threshold control point (Set button)



#### Ordering data

Type	Article number	Packaging, bag
DSI-SMART Controller	86451922	1 piece

RoHS

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SORIES

### SMART Sensor Extension Cable

#### Product description

- Cable for optional connection of the sensor with a second ballast



#### Ordering data

Type	Article number	Length	Packaging, bag
SMART Sensor Extension Cable	86459176	0.8 m	10 pieces

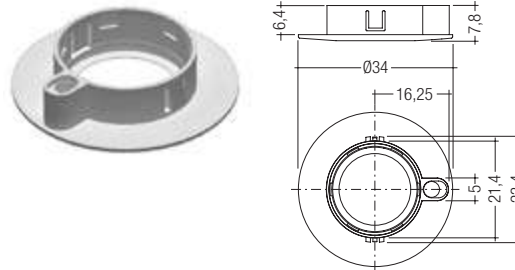
RoHS

ACCES-  
SORIES

### SMART Sensor Cover Frame

#### Product description

- Cover frame for attaching the sensor directly to the luminaire casing



#### Ordering data

Type	Article number	Packaging, bag
SMART Mounting Ring 5DPI	86459428	50 pieces





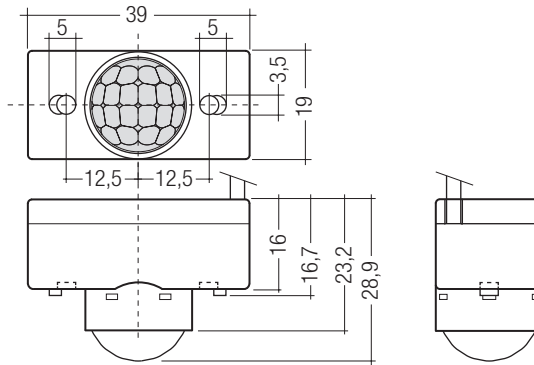
NEW

### SMART Sensor 10DPI 19f

Ambient light sensor and presence detector for lighting control

#### Product description

- Optional ambient light sensor and motion detector for PCA EXCEL one4all devices from the xtec II generation
  - Can be remote controlled
  - Max. installation height 10 m
  - Compact dimensions for luminaire installation
  - Simple cable connection to the ballast via SMART interface
  - Power supply via ballast
  - Fixing on lamp possible with lamp clip
  - Lighting control and presence detection can be deactivated
  - Individual adjustment of the parameters with configuration software
  - Optimal with corridorFUNCTION profile
  - Optional connection with second ballast possible via accessory cable
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Supply via	SMART interface
Current draw	1 mA from SMART interface
Operating temperature	0 ... +60 °C
Storage temperature	-20 ... +65 °C
Type of protection	IP20
Max. casing temperature tc	63 °C

#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor 10DPI 19f	86459168	1 piece
SMART Sensor 10DPI 19f cF n.o.	86459324	1 piece
SMART Sensor 10DPI 19f cF 01	86459322	1 piece
SMART Sensor 10DPI 19f cF 30	86459323	1 piece

→ [Product matrix](#), page 387

[Wiring diagrams and installation examples](#), page 447

#### Specific technical data

Type	Detection				Max. cable length	Control output (devices)	corridorFUNCTION profile
	Light detection angle symmetric	Light measurement at the sensor head <sup>①</sup>	Illuminance (factory default) <sup>②</sup>	Motion detection angle symmetric			
SMART Sensor 10DPI 19f	38 °	40 – 1,000 lx	500 lx	93 °	0.8 m	2	–
SMART Sensor 10DPI 19f cF n.o.	38 °	40 – 1,000 lx	500 lx	93 °	0.8 m	2	never off
SMART Sensor 10DPI 19f cF 01	38 °	40 – 1,000 lx	500 lx	93 °	0.8 m	2	switch off 1 minute
SMART Sensor 10DPI 19f cF 30	38 °	40 – 1,000 lx	500 lx	93 °	0.8 m	2	switch off 30 minutes

<sup>①</sup> The measured value at the sensor head corresponds to approx. 60 to 3,000 lux on the surface measured.

<sup>②</sup> The illuminance is set for a room defined by Tridonic. Depending on the actual room (reflectance) the measured illuminance may deviate from this value. The illuminance should therefore be checked in the installation and adjusted if necessary.

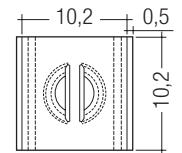
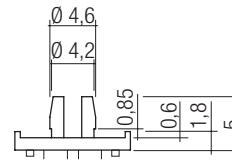
RoHS

ACCES-  
SORIES

### SMART Sensor Mounting Flange

#### Product description

- Mounting flange for connecting the sensor to the lamp clip
- Mounting flange for connecting the sensor directly to the luminaire housing



#### Ordering data

Type	Article number	Packaging, bag
SMART Sensor Mounting Flange	86459328	50 pieces

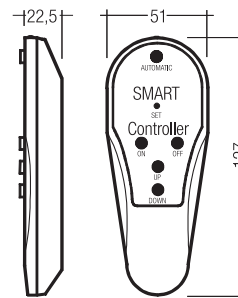
RoHS

ACCES-  
SORIES

### IR SMART Controller

#### Product description

- Optional infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activation of automatic lighting control (Automatic button)
- Setting the threshold control point (Set button)



#### Ordering data

Type	Article number	Packaging, bag
DSI-SMART Controller	86451922	1 piece

RoHS

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SORIES

### SMART Sensor Extension Cable

#### Product description

- Cable for optional connection of the sensor with a second ballast



#### Ordering data

Type	Article number	Length	Packaging, bag
SMART Sensor Extension Cable	86459176	0.8 m	10 pieces



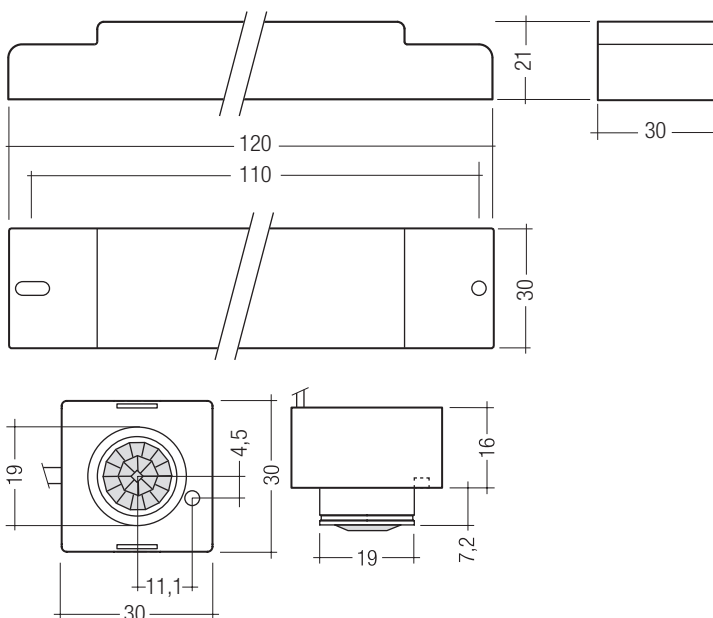
NEW

### basicDIM ILD

Compact control module with ambient light sensor and motion sensor

#### Product description

- Compact dimensions for luminaire installation
  - For up to 10 DSI or DALI ballasts
  - 2 DALI/DSI output channels with adjustable negative off set from channel 2 to channel 1
  - Ambient light sensor with motion detector
  - Max. installation height 5 m
  - Momentary-action switch input for on/off switching and dimming
  - Can be remote controlled
  - Individual adjustment of the parameters with DSI-SMART programmer
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	2 W
Output, standby	0.5 W
Momentary-action switch input for dimming	single
Digital control line DSI/DALI	2
Control output (devices)	10
Max. output cable length at 1.5 mm <sup>2</sup>	100 m
Operating temperature	0 ... +60 °C
Storage temperature t <sub>s</sub>	-25 ... +70 °C
Type of protection	IP20
Max. casing temperature t <sub>c</sub>	75 °C

#### Ordering data

Type	Article number	Mounting	Packaging, carton
basicDIM ILD	86459377	Luminaire installation	10 pieces

→ Product matrix, page 387

Wiring diagrams and installation examples, page 447

#### Specific technical data

Type	Detection				Max. cable length sensor
	Light detection angle asymmetric	Light measurement at the sensor head <sup>①</sup>	Illuminance (factory default) <sup>②</sup>	Motion detection angle symmetric	
basicDIM ILD	83°	5 – 500 lx	500 lx	92°	0.8 m

① The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.

② The illuminance is set for a room defined by Tridonic. Depending on the actual room (reflectance) the measured illuminance may deviate from this value. The illuminance should therefore be checked in the installation and adjusted if necessary.

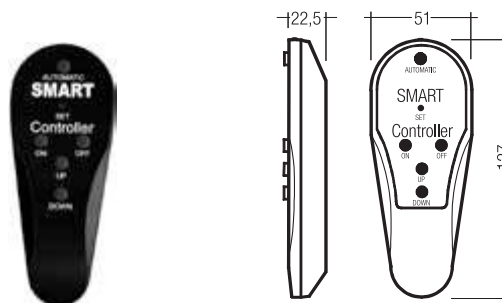
RoHS

ACCES-  
SORIES

### IR SMART Controller

#### Product description

- Optional infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activation of automatic lighting control (Automatic button)
- Setting the threshold control point (Set button)



#### Ordering data

Type	Article number	Packaging, carton
DSI-SMART Controller	86451922	1 piece

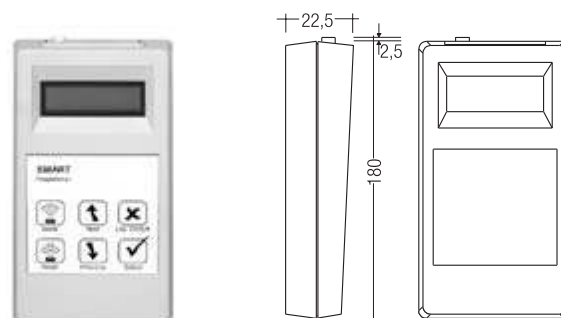
RoHS

ACCES-  
SORIES

### DSI SMART Programmer

#### Product description

- Optional infra-red programming unit for DSI-SMART PTM
- Settings can be read and modified
- Programmable functions such as light level, time delay, P.I.R., bright-out, power up



#### Ordering data

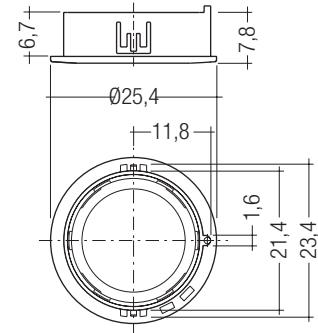
Type	Article number	Packaging, carton
DSI-SMART Programmer <sup>①</sup>	86447355	1 piece

<sup>①</sup> At version 2.30 for basicDIM ILD

basicDIM ILD Sensor Cover Frame

**Product description**

- Cover frame for attaching the sensor directly to the luminaire casing



**Ordering data**

Type	Article number	Packaging, carton
basicDIM Mounting Ring	86459426	50 pieces

RoHS

Accessories for smartDIM Sensor, basicDIM ILD

**Product description**

- Optional for increasing the detection range of the motion detector for smartDIM Sensor 1 or basicDIM ILD



**Ordering data**

Type	Article number	Packaging, carton
smartDIM Mirror	86454640	1 piece

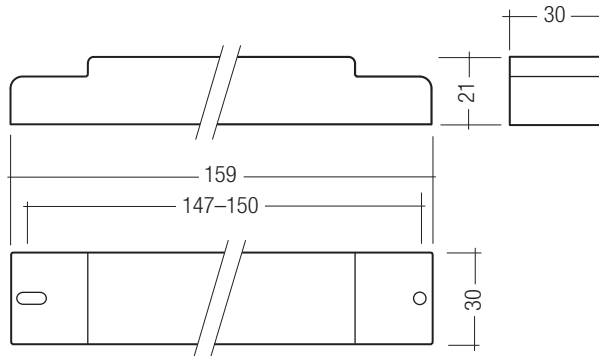


### basicDIM RCL

Control module for combination with ambient light sensor, momentary-action switch and presence sensor

#### Product description

- Digital control module with ambient light sensor, motion detector and momentary-action switch input
  - Control module for controlling up to 25 DSI ballasts
  - Dimming, switching and saving of the daylight set value via single momentary-action switch; multiple switches can be connected in parallel
  - Saving of the daylight set value lockable
  - With the Link Line it is possible to connect up to 20 basicDIM RCL's to one system (synchronisation of motion detection)
  - Mode can be selected via rotary switch
  - Input for a maximum of 4 basicDIM sensors
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	1.5 W
Operating temperature	0 ... +60 °C
Storage temperature	-25 ... +70 °C
Type of protection	IP20



Product matrix, page 387

Wiring diagrams and installation examples, page 447

#### Ordering data

Type	Article number	Packaging, carton	Packaging, carton
basicDIM RCL	86458998	1 piece	10 pieces

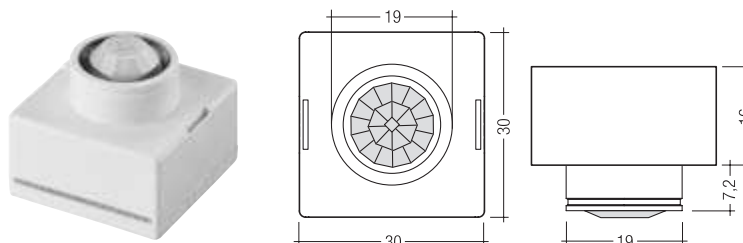
#### Specific technical data

Type	Inputs			Outputs			Link Line	
	Dimming momentary-action switch	Max. basicDIM sensors	Max. sensor line length	Digital control line DSI	Control output per physical output DSI (devices)	Dimming range	Voltage DC	Number of combinable modules
basicDIM RCL	single	4	10 m	1	25	1 – 100 %	15 V	20

RoHS

ACCES-  
SORIES

### basicDIM Sensor 5DP 19f



#### Product description

- Optional ambient light sensor and motion detector for basicDIM RCL and basicDIM RCL DBC
- Ceiling installation
- With push-in terminal

#### Technical data

Light measurement at the sensor head<sup>①</sup> 5 – 500 lx

#### Ordering data

Type	Article number	Packaging
basicDIM 5DP 19f	86459173	1 piece

<sup>①</sup> The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.

RoHS

ACCES-  
SORIES

### Accessories for basicDIM Sensor 5DP 19f



#### Product description

- Optional for increasing the detection range of the motion detector for basicDIM Sensor 5DP 19f

#### Ordering data

Type	Article number	Packaging
smartDIM mirror	86454640	1 piece

RoHS

ACCES-  
SORIES

### basicDIM Sensor 5DP 41rc



#### Product description

- Optional ambient light sensor and motion detector for basicDIM RCL and basicDIM RCL DBC
- Surface mounting

#### Technical data

Light measurement at the sensor head<sup>①</sup> 5 – 500 lx

#### Ordering data

Type	Article number	Packaging
basicDIM Sensor 5DP 41rc	86459115	1 piece

<sup>①</sup> The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.

RoHS

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SORIES

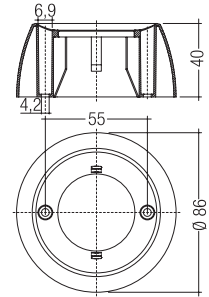
### basicDIM Sensor 5DP 41rs

#### Product description

- Optional ambient light sensor and motion detector for basicDIM RCL and basicDIM RCL DBC
- Surface mounting

#### Technical data

Light measurement at the sensor head <sup>①</sup>	5 – 500 lx
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#### Ordering data

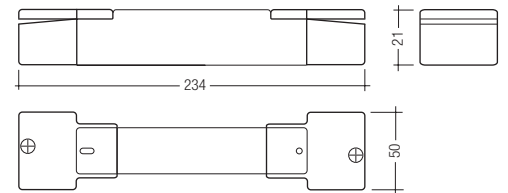
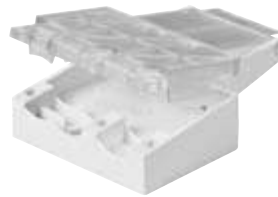
Type	Article number	Packaging
basicDIM Sensor 5DP 41rs	86459116	1 piece

<sup>①</sup> The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.

RoHS

ACCES-  
SORIES

### Strain-relief set



#### Ordering data

Type	Article number	Packaging
Strain-relief set	86458689	1 piece





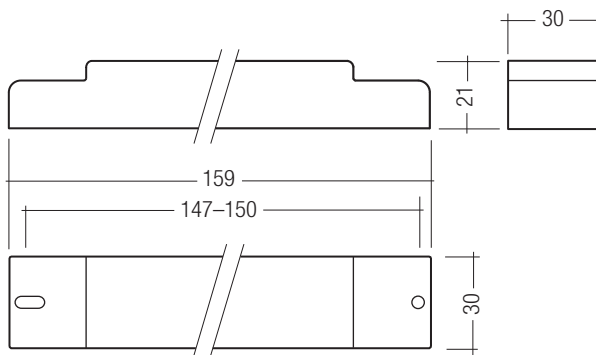
NEW

### basicDIM RCL DBC

Control module for combination with ambient light sensor, momentary-action switch and presence sensor

#### Product description

- Digital control module with ambient light sensor, motion detector and momentary-action switch input
  - DALI Broadcast control module for controlling up to 10 DALI ballasts
  - Dimming, switching and saving of the daylight set value via single momentary-action switch; multiple switches can be connected in parallel
  - Saving of the daylight set value lockable
  - With the Link Line it is possible to connect up to 20 basicDIM RCL DBC to one system (synchronisation of motion detection)
  - Mode can be selected via rotary switch
  - Input for a maximum of 4 basicDIM sensors
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	1.5 W
Operating temperature	0 ... +60 °C
Storage temperature	-25 ... +70 °C
Type of protection	IP20

#### Ordering data

Type	Article number	Packaging, carton	Packaging, carton
basicDIM RCL DBC	86459306	1 piece	10 pieces



Product matrix, page 387

Wiring diagrams and installation examples, page 447

#### Specific technical data

Type	Inputs			Outputs			Link Line	
	Dimming momentary-action switch	Max. basicDIM sensors	Max. sensor line length	Digital control line DALI	Control output per physical output DALI (devices)	Dimming range	Voltage DC	Number of combinable modules
basicDIM RCL DBC	single	4	10 m	1	10	1 – 100 %	15 V	20

RoHS

ACCES-  
SORIES

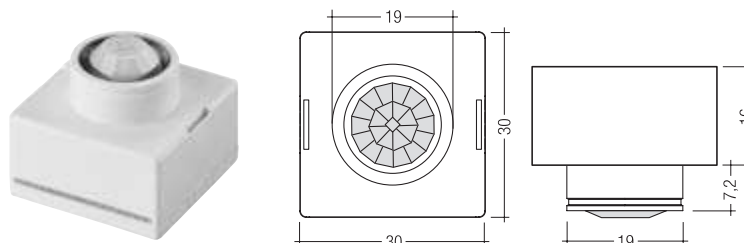
### basicDIM Sensor 5DP 19f

#### Product description

- Optional ambient light sensor and motion detector for basicDIM RCL and basicDIM RCL DBC
- Ceiling installation
- With push-in terminal

#### Technical data

Light measurement at the sensor head<sup>①</sup> 5 – 500 lx



#### Ordering data

Type	Article number	Packaging
basicDIM 5DP 19f	86459173	1 piece

<sup>①</sup> The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.

RoHS

ACCES-  
SORIES

### Accessories for basicDIM Sensor 5DP 19f

#### Product description

- Optional for increasing the detection range of the motion detector for basicDIM Sensor 5DP 19f



#### Ordering data

Type	Article number	Packaging
smartDIM mirror	86454640	1 piece

RoHS

ACCES-  
SORIES

### basicDIM Sensor 5DP 41rc

#### Product description

- Optional ambient light sensor and motion detector for basicDIM RCL and basicDIM RCL DBC
- Surface mounting

#### Technical data

Light measurement at the sensor head<sup>①</sup> 5 – 500 lx



#### Ordering data

Type	Article number	Packaging
basicDIM Sensor 5DP 41rc	86459115	1 piece

<sup>①</sup> The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.

RoHS

ACCES-  
SORIES

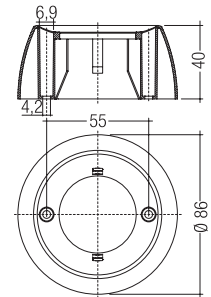
basicDIM Sensor 5DP 41rs

Product description

- Optional ambient light sensor and motion detector for basicDIM RCL and basicDIM RCL DBC
- Surface mounting

Technical data

Light measurement at the sensor head<sup>①</sup> 5 – 500 lx



Ordering data

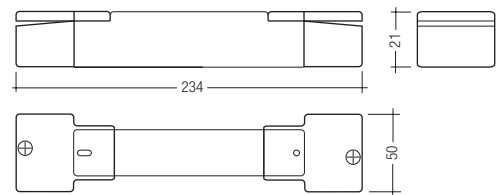
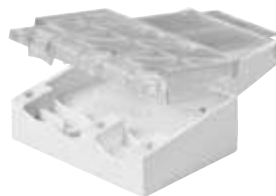
Type	Article number	Packaging
basicDIM Sensor 5DP 41rs	86459116	1 piece

① The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.

RoHS

ACCES-  
SORIES

Strain-relief set



Ordering data

Type	Article number	Packaging
Strain-relief set	86458689	1 piece



### DSI-SMART PTM

Ambient light sensor and presence detector for constant lighting control

#### Product description

- Ambient light sensor with motion detector
  - Momentary-action switch input for on/off switching and dimming
  - 3 different casing versions
  - For 4 or 25 DSI or DALI ballasts
  - Functions can be configured with the DSI-SMART Programmer
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Operating temperature	0 ... +60 °C
Storage temperature	-25 ... +60 °C
Type of protection	IP20



Product matrix, page 387

Wiring diagrams and installation examples, page 447

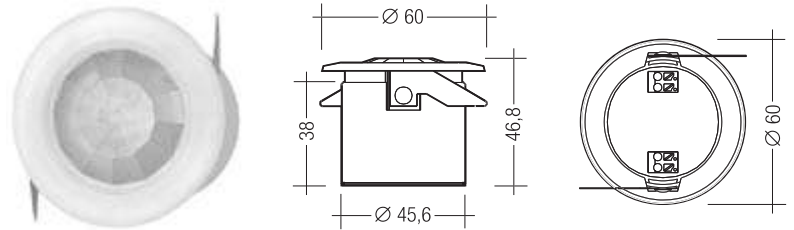


Fig. 1

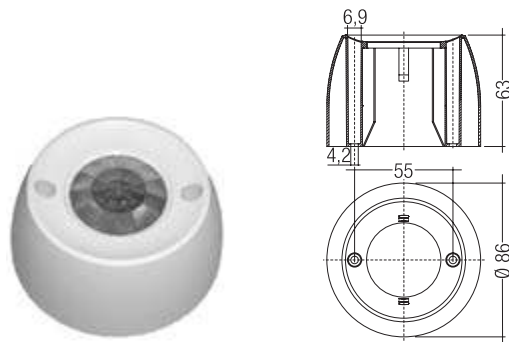


Fig. 2

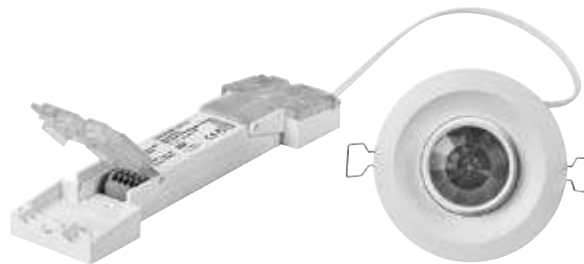
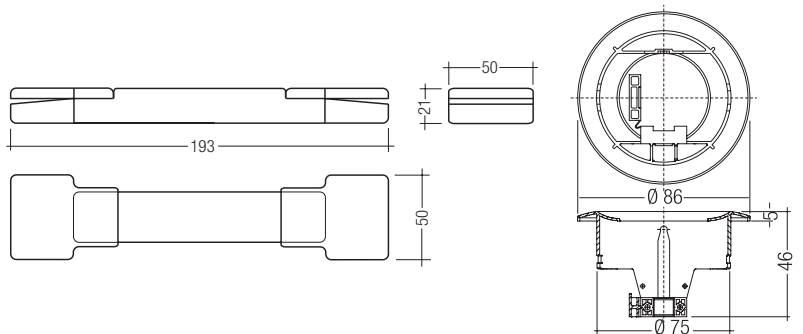


Fig. 3



#### Ordering data

Type	Article number	Figure	Packaging, carton
DSI-SMART PTM integrated Luminaire installation	86458588	1	10 pieces
DSI-SMART PTM remote surface Surface mounting	86458589	2	1 piece
DSI-SMART PTM remote ceiling Ceiling installation	86458587	3	1 piece

**Specific technical data**

Type	Supply		Detection	Inputs	Outputs		
	Power	Output, standby	Light measurement at the sensor head <sup>①</sup>	Dimming momentary-action switch	Digital control line DSI/DALI <sup>②</sup>	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup>
<b>DSI-SMART PTM integrated</b>	1.7 W	1.5 W	5 – 500 lx	single	1	4	250 m
<b>DSI-SMART PTM remote surface</b>	1.7 W	1.5 W	5 – 500 lx	single	1	4	250 m
<b>DSI-SMART PTM remote ceiling</b>	3.9 W	1.3 W	5 – 500 lx	single	1	25	250 m

<sup>①</sup> The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.

<sup>②</sup> DALI from DSI SMART PTM V1.1 – for parameterization the DSI SMART Programmer from V2.01 is required.

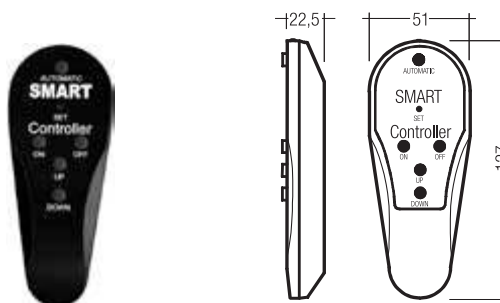
RoHS

ACCES-  
SORIES

**IR SMART Controller**

**Product description**

- Optional infra-red remote control
- Switching on and off (On/Off button)
- Dimming (Up/Down button)
- Activation of automatic lighting control (Automatic button)
- Setting the threshold control point (Set button)



**Ordering data**

Type	Article number	Packaging, carton
DSI-SMART Controller	86451922	1 piece

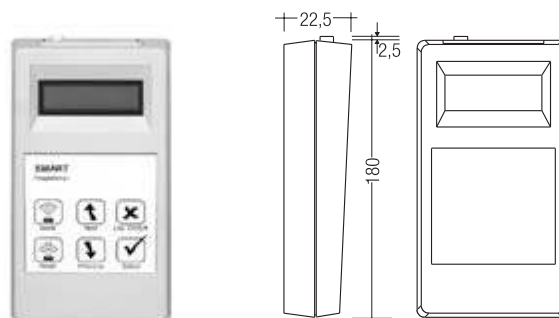
RoHS

ACCES-  
SORIES

**DSI SMART Programmer**

**Product description**

- Optional infra-red programming unit for DSI-SMART PTM
- Settings can be read and modified
- Programmable functions such as light level, time delay, P.I.R., bright-out, power up, start, override



**Ordering data**

Type	Article number	Packaging, carton
DSI-SMART Programmer	86447355	1 piece



**smartDIM SM Ip**

Control module for combination with ambient light sensor, momentary-action switch or presence sensor

**Product description**

- Digital DSI control module (luminaire installation unit) for daylight control, motion detector and momentary-action switch input
- For luminaire installation in a low-profile casing
- Input for a maximum of 2 smartDIM sensors
- Dimming and switching via single momentary-action switch; multiple switches can be connected in parallel
- Mode can be selected via rotary switch
- The device can be disconnected from the power supply via a built-in relay (this reduce standby losses)

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request

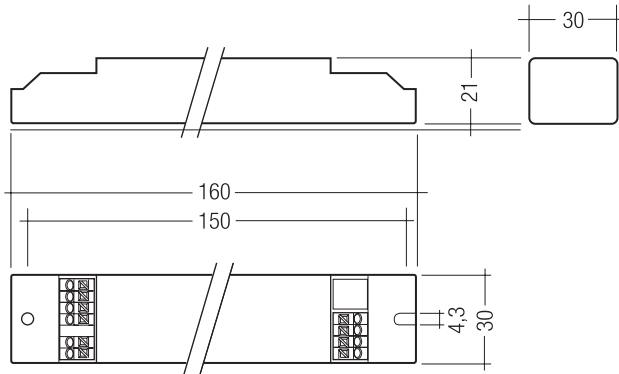
**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	1.5 W
Operating temperature	0 ... +60 °C
Storage temperature	-25 ... +55 °C
Type of protection	IP20



Product matrix, page 387

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**Ordering data**

Type	Article number	Packaging, carton
smartDIM SM Ip	86458337	10 pieces

**Specific technical data**

Type	Inputs			Outputs			Output, relay (L)		
	Dimming momentary-action switch	Max. smartDIM sensors	Max. sensor line length	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup>	Max. switching output (e.g. PCA)	Maximum apparent power	Max. switching output
smartDIM SM Ip	single	2	10 m	1	25	250 m	2	200 VA	500 W

RoHS

ACCES-  
SORIES

smartDIM Sensor 1

**Product description**

- Optional ambient light sensor and motion detector for smartDIM SM Ip
- Compact low-profile dimensions for luminaire installation
- With push-in terminal or cable

**Technical data**

Light measurement at the sensor head<sup>①</sup> 5 – 500 lx

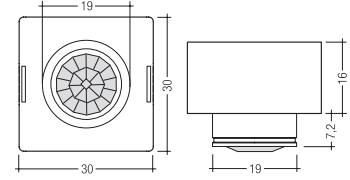


Fig. 1

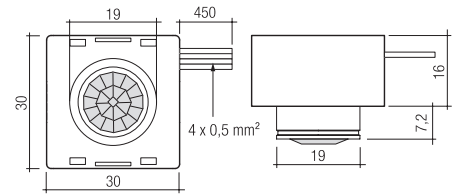


Fig. 2

**Ordering data**

Type	Article number	Figure	Packaging, carton
smartDIM Sensor 1	86454265	1	50 pieces
smartDIM Sensor 1 Cable	86458462	2	25 pieces

<sup>①</sup> The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.



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RoHS

ACCES-  
SORIES

## Accessories for smartDIM Sensor

### Product description

- Optional for increasing the detection range of the motion detector for smartDIM Sensor 1



### Ordering data

Type	Article number	Packaging, carton
smartDIM Mirror	86454640	1 piece

RoHS

ACCES-  
SORIES

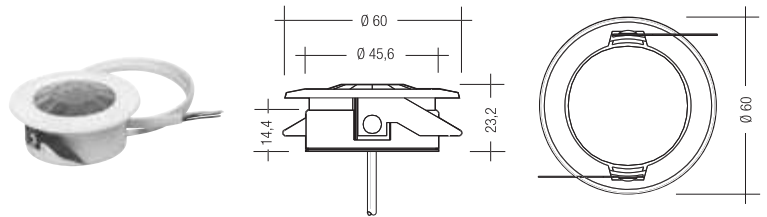
## smartDIM Sensor 2

### Product description

- Optional ambient light sensor and motion detector for smartDIM SM Ip
- Compact low-profile dimensions for luminaire installation

### Technical data

Light measurement at the sensor head <sup>①</sup>	5 – 500 lx
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### Ordering data

Type	Article number	Packaging, carton
smartDIM Sensor 2	86454523	10 pieces

<sup>①</sup> The measured value at the sensor head corresponds to approx. 10 to 1,500 lux on the surface measured.



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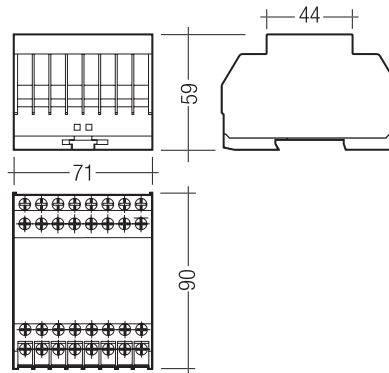


### modularDIM Basic

Control and lighting regulation module for 3 DSI channels

#### Product description

- Basic module for manual dimming and switching of 3 independent DSI output groups
  - SELV switch inputs for using conventional momentary-action switches
  - Up to 100 DSI devices per output channel
  - Floating motion detector inputs for switching each group
  - Ready to start without programming
  - For installation in switching cabinets
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Rated supply voltage	120 – 277 V
Mains frequency	50 / 60 Hz
Power	< 10 W
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



Product matrix, page 387

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#### Ordering data

Type	Article number	Packaging, carton	Packaging, carton
modularDIM BASIC	86454539	1 piece	10 piece

#### Specific technical data

Type	Inputs		Outputs		
	Dimming momentary-action switch	Presence sensor	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup>
modularDIM BASIC	1-way / 2-way	3	3	100	250 m



ACCES-  
SERIES

modularDIM SC

**Product description**

- Optional expansion module for scene control in the modularDIM system
- Retrieval and programming of up to 4 lighting scenes
- 4 SELV switch inputs for using conventional momentary-action switches
- 4 outputs for status LEDs

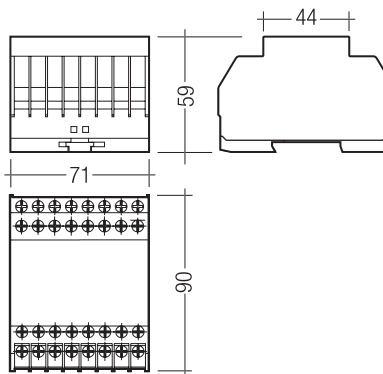
**Technical data**

Input, 4 momentary-action switches	single
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



Product matrix, page 387

Wiring diagrams and installation examples, page 447



**Ordering data**

Type	Article number	Packaging, carton	Packaging, carton
modularDIM SC	86454545	1 piece	10 piece



ACCES-  
SORIES

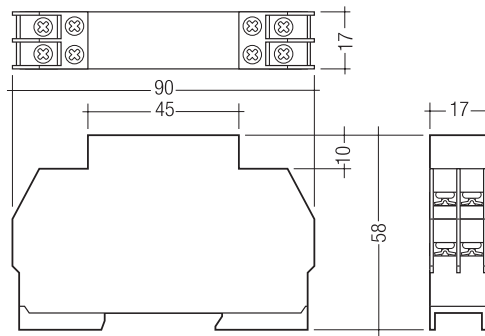
modularDIM DM

**Product description**

- Optional expansion module for daylight control in the modularDIM system
- Simple programming of independent daylight characteristics for each DSI group
- On/off switching of the daylight function by means of conventional switches

**Technical data**

Input, light sensor	1
Input, switch man/auto	1
Ambient temperature ta	0 ... +50 °C
Type of protection	IP20



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**Ordering data**

Type	Article number	Packaging, carton	Packaging, carton
modularDIM DM	86454564	1 piece	10 piece



ACCES-  
SORIES

Accessories for modularDIM DM

**Product description**

- Ceiling sensor for measuring daylight



**Ordering data**

Type	Article number	Packaging, carton	Packaging, carton
Sensor DAYLIGHT	86454586	1 piece	40 pieces



ACCES-  
SORIES

modularDIM LC

**Product description**

- Optional expansion module for non-floating motion detectors or momentary-action switches in the modularDIM system

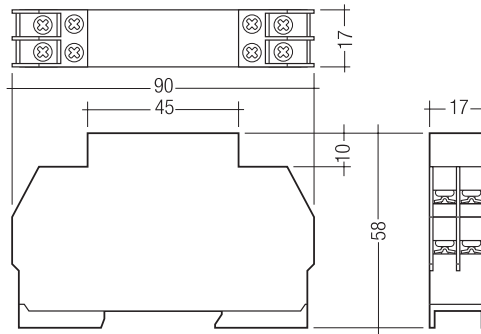
**Technical data**

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Max. output dielectric strength	30 V (SELV)
Input, with electrical isolation	4000 V 2 min.; 6 mm (SELV)
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



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Wiring diagrams and installation examples, page 447



**Ordering data**

Type	Article number	Packaging, carton	Packaging, carton
modularDIM LC	86457888	1 piece	10 piece

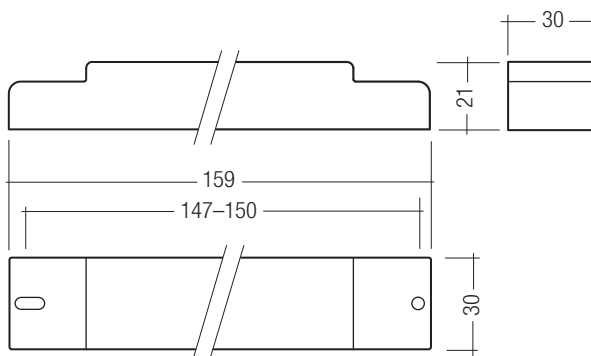


## DSI-V/T

Control module for amplifying DSI signals or switch input

### Product description

- Multi-functional DSI controller
  - For amplifying the DSI signal for a maximum of 50 DSI devices or for cascading long lines
  - Special function for tunnel applications
  - Function can be set via DIP switches
  - Input for manual dimming
  - Input for motion detector or momentary-action switch for scene recall
  - Different motion detector functions can be set
  - One scene can be set and recalled
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



### Technical data

Rated supply voltage	120 – 277 V
Mains frequency	50 / 60 Hz
Power	1 W
Ambient temperature $t_a$	-25 ... +60 °C
Type of protection	IP20

### Ordering data

Type	Article number	Packaging, carton	Packaging, carton
DSI-V/T	86458690	1 piece	10 piece

→ **Product matrix**, page 387

**Wiring diagrams and installation examples**, page 447

### Specific technical data

Type	Inputs			Outputs		
	Dimming momentary-action switch	Presence sensor	DSI signal <sup>①</sup>	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup> <sup>②</sup>
DSI-V/T	1-way / 2-way	1	1	1	50	250 m

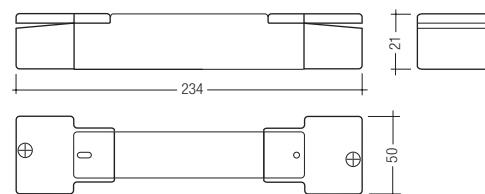
<sup>①</sup> One DSI-V/T corresponds to the DSI load of two DSI devices.

<sup>②</sup> Max. cable length in tunnel/security mode = 500 m (DSI-V function only).

RoHS

ACCES-  
SORIES

## Strain-relief set



### Ordering data

Type	Article number	Packaging, carton
Strain-relief set	86458689	1 piece



## Smart SWITCH II

Automatic switching based on presence and light level

### Product description

- Motion detector for luminaire installation
- For automatic on/off switching of luminaires with electronic ballasts
- “Bright-Out” function: luminaire is not switched on if there is adequate brightness
- Maximum of 1 sensor possible
- Low-profile casing (21 x 30 mm)
- For a maximum of 2 ECGs
- Delay time and light value for the “Bright-Out” function can be set via 2 potentiometers

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



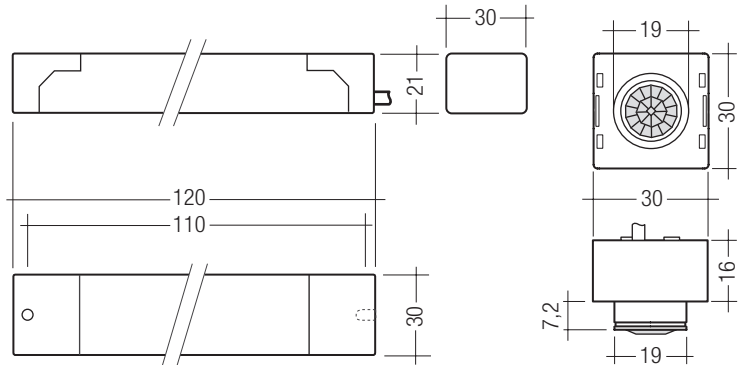
### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Power	7.5 VA
Output, standby	0.6 W
Ambient temperature $t_a$	0 ... +60 °C



Product matrix, page 387

Wiring diagrams and installation examples, page 447



### Ordering data

Type	Article number	Packaging, carton
Smart SWITCH II	86458452	10 pieces
Smart SWITCH strain relief	86458246	10 pieces

### Specific technical data

Type	Inputs		Output, relay (L')			
	Max. Smart SWITCH sensors	Sensor cable length	L' (switched phase)	Max. switching output (e.g. PCA)	Max. switching output [W]	Max. switching output [VA]
Smart SWITCH II	1	0.50 m (can be extended to 2 m max.)	220 – 240 V	2	500 W	200 VA
Smart SWITCH strain relief	1	0.25 m (can be extended to 2 m max.)	220 – 240 V	2	500 W	200 VA

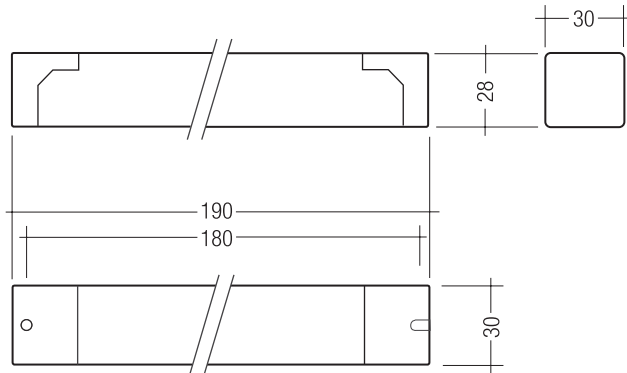


### DSI-A/D

Converter for 1...10 V into DSI signal 1-channel for installation in luminaire

#### Product description

- Converter for converting analogue signals into DSI signals
  - For connecting DSI devices in 1...10 V control systems
  - For a maximum of 50 DSI devices
  - Constant lighting control possible via terminal for Smart-LS II (article number: 86448347)
  - On/off switching via separate switch input
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



#### Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Ambient temperature $t_a$	0 ... +60 °C
Type of protection	IP20



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#### Ordering data

Type	Article number	Packaging, carton	Packaging, carton
DSI-A/D	86453957	1 piece	10 piece

#### Specific technical data

Type	Inputs				Outputs		
	Dimming	Dimming, potentiometer (optional) <sup>①</sup>	ON/OFF switch (220–240 V)	Ambient light sensor	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup>
DSI-A/D	1 ... 10 V	47 (≥ 47 ≤ 100) kOhm	1	1	1	50	100 m

<sup>①</sup> Potentiometer with linear characteristics, optimum: 47 kOhm, possible range: 47 – 100 kOhm; power ≥ 0.5 W.



### DSI-A/DS

Converter for 1...10 V into DSI signal 1-channel for installation in switchgear cabinet

#### Product description

- Converter for converting analogue signals into DSI signals
  - For installation in switching cabinets
  - For connecting DSI devices in 1...10 V control systems
  - For a maximum of 100 DSI devices
  - On/off switching via separate switch input
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com), or available on request



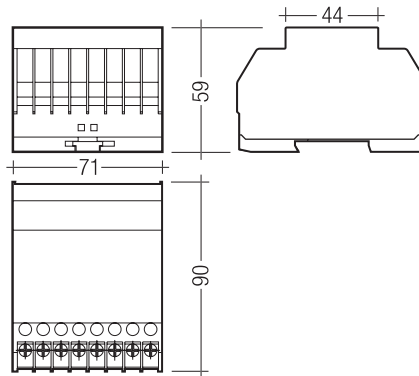
#### Technical data

Rated supply voltage	230 – 240 V
Mains frequency	50 / 60 Hz
Power	4 W
Ambient temperature $t_a$	0 ... +50 °C
Type of protection	IP20



Product matrix, page 387

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#### Ordering data

Type	Article number	Packaging, carton	Packaging, carton
DSI-A/DS	86456111	1 piece	10 piece

#### Specific technical data

Type	Inputs			Outputs		
	Dimming	Dimming, potentiometer (optional) <sup>①</sup>	ON/OFF switch (220–240 V)	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup>
DSI-A/DS	1 ... 10 V	47 (≥ 47 ≤ 100) kOhm	1	1	100	250 m

<sup>①</sup> Potentiometer with linear characteristics, optimum: 47 kOhm, possible range: 47 – 100 kOhm; power ≥ 0.5 W.





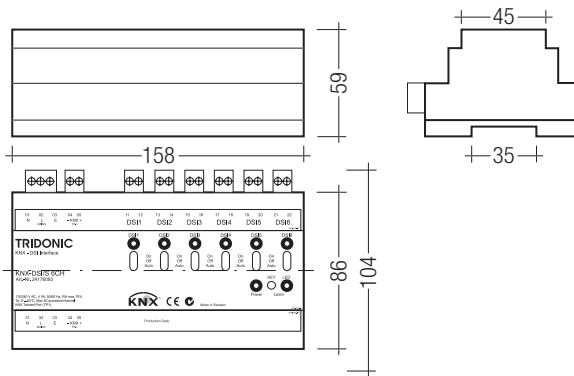
NEW

### KNX-DSI/S 6CH

Converter for KNX into DSI signals for installation in switch cabinet

#### Product description

- Converter for converting KNX signals into DSI signals
  - For connecting digital DSI devices in KNX systems
  - Real-time clock for controlling of time events
  - 6 DSI outputs each for 50 DSI devices
  - For installation in switching cabinets
  - Status LED for indicating the operating status
  - Test switch for installation test
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



#### Technical data

Rated supply voltage	110 – 240 V
Mains frequency	50 / 60 Hz
Power	5 W
Storage temperature	-20 ... +70 °C
Ambient temperature ta	0 ... +50 °C
Humidity	5 % ... max. 75 %
Type of protection	IP20

#### Ordering data

Type	Article number	Packaging, carton
KNX-DSI/S 6CH	24176093	1 piece

#### Specific technical data

Type	Inputs		Outputs	
	Dimming / Switching / Reporting	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup>
KNX-DSI/S 6CH	KNX (TP-1)	6	50	250 m



NEW

**LON-DSI/S 6CH**

Converter for LON into DSI signals for installation in switch cabinet

**Product description**

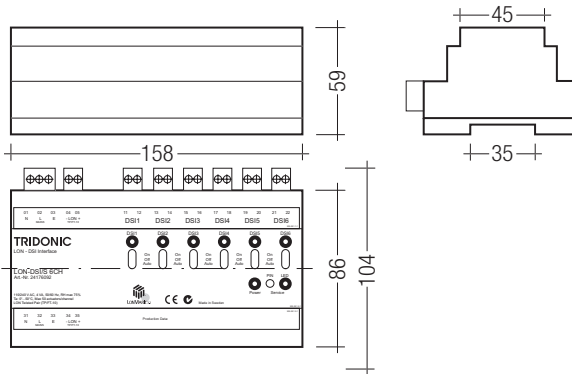
- Converter for converting LON signals into DSI signals
- For connecting digital DSI devices in LON systems
- Real-time clock for controlling of time events
- 6 DSI outputs each for 50 DSI devices
- For installation in switching cabinets
- Status LED for indicating the operating status
- Test switch for installation test

→ For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



**Technical data**

Rated supply voltage	110 – 240 V
Mains frequency	50 / 60 Hz
Power	5 W
Storage temperature	-20 ... +70 °C
Ambient temperature ta	0 ... +50 °C
Humidity	5 % ... max. 75 % (non-condensing)
Type of protection	IP20



**Ordering data**

Type	Article number	Packaging, carton
LON-DSI/S 6CH	24176092	1 piece

**Specific technical data**

Type	Inputs		Outputs	
	Dimming / Switching / Reporting	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm <sup>2</sup>
LON-DSI/S 6CH	LON (TP/FT-10)	6	50	250 m

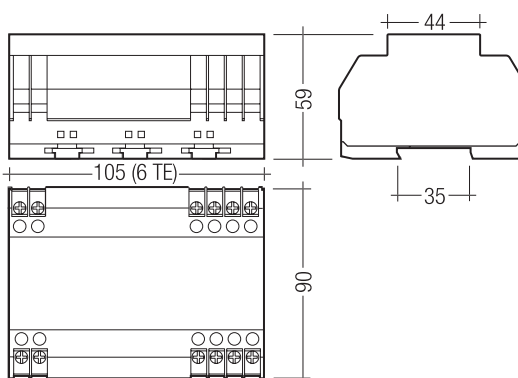


### DSI-PCD/S

Leading-edge/trailing-edge phase dimmer 40 – 1,000 VA with preset

#### Product description

- Digital leading-edge and trailing-edge phase dimmer
  - Control via DSI signal or momentary-action switch
  - Preset function: storage and retrieval of any lighting value
  - With automatic load detection
  - For installation in switching cabinets
  - Status LED for indicating the operating status
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request



#### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Connected load	40 – 1,000 VA
Power loss	2 W (15 W at full load)
Ambient temperature $t_a$	0 ... +40 °C
Type of protection	IP20



Product matrix, page 387

Wiring diagrams and installation examples, page 447

#### Ordering data

Type	Article number	Packaging, carton
DSI-PCD/S	22154333	1 pieces

#### Specific technical data

Type	Inputs			Outputs		Terminals
	Momentary-action switch input for preset retrieval	Single or twin momentary-action switches	DSI control input	Dimmed phase	Control range, output	
DSI-PCD/S	1	1	1	1	0; 1 – 100 %	0.75 – 2.5 mm <sup>2</sup>



## DSI-RK

Relay module for switching ohmic loads

### Product description

- Relay module
  - For switching ohmic loads
  - Operation via momentary-action switch (switchDIM) or DSI signal
  - Parametrisation (RELAY-ON, RELAY-OFF) via configTOOL software
  - Floating switching output
- For product data sheet go to [www.tridonic.com](http://www.tridonic.com),  
or available on request

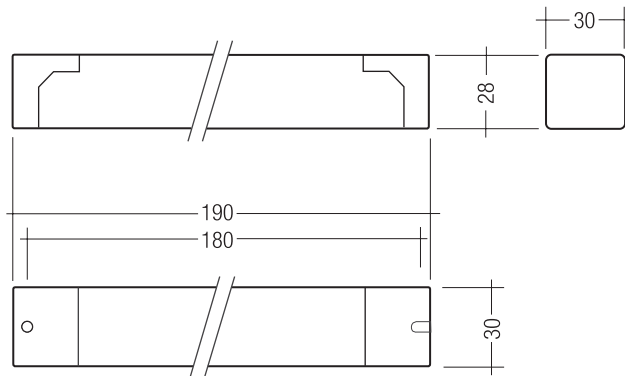
### Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Ambient temperature $t_a$	0 ... +60 °C
Type of protection	IP20



Product matrix, page 387

Wiring diagrams and installation examples, page 447



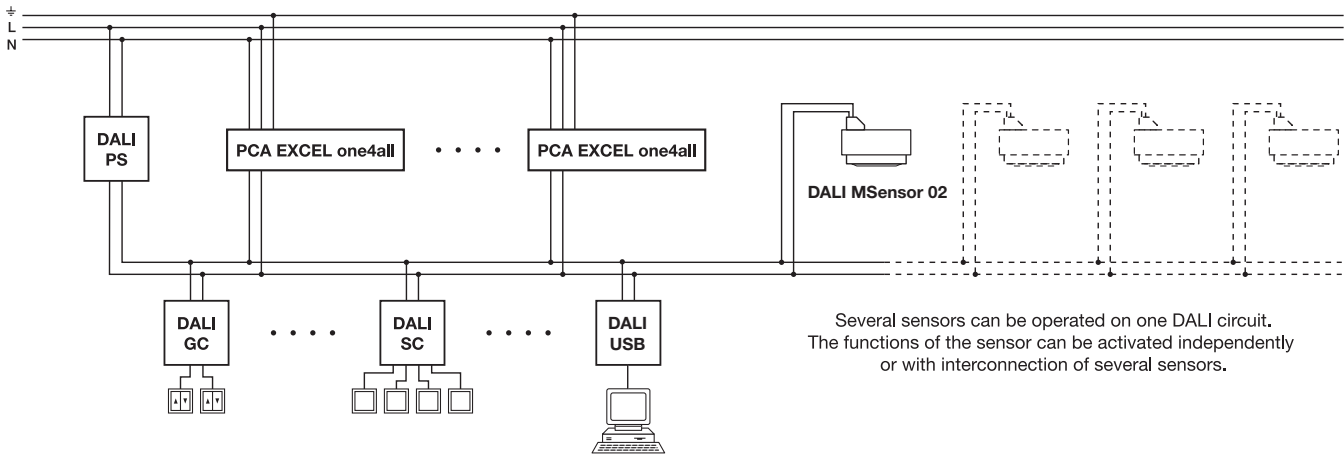
### Ordering data

Type	Article number	Packaging, carton	Packaging, carton
DSI-RK	86449304	1 piece	10 piece

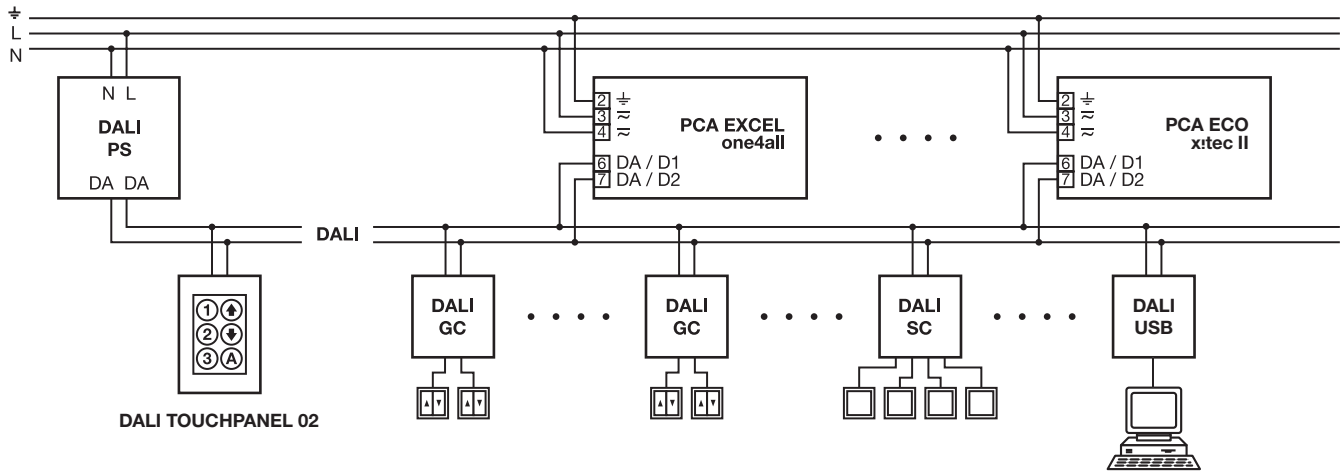
### Specific technical data

Type	Input	Output, relay		
		Relay, floating	Switching output (at 110 V DC max.)	Switching output (at 250 V AC max.)
DSI-RK	DSI/switchDIM	Make contact	110 W / 1 A	500 W / 2 A

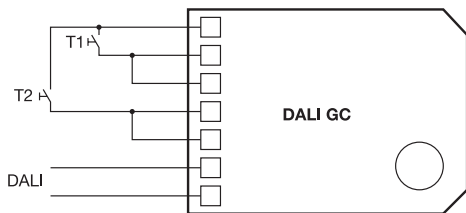
DALI MSensor 02



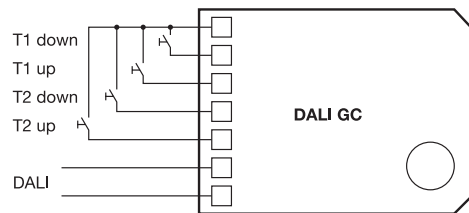
DALI modules in a network



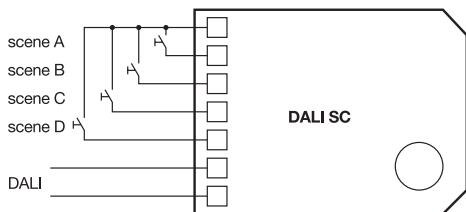
DALI GC, single push to make switches



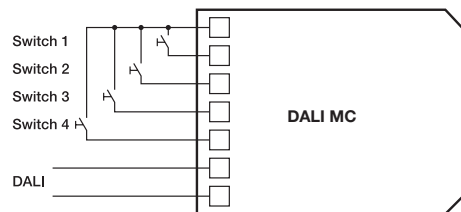
DALI GC, double push to make switches



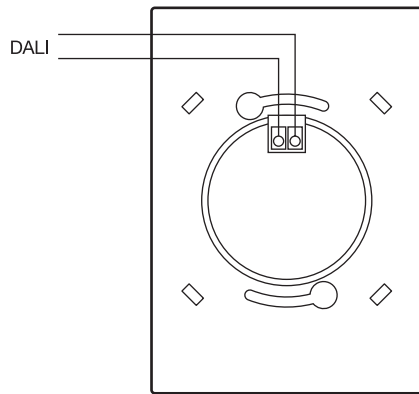
DALI SC



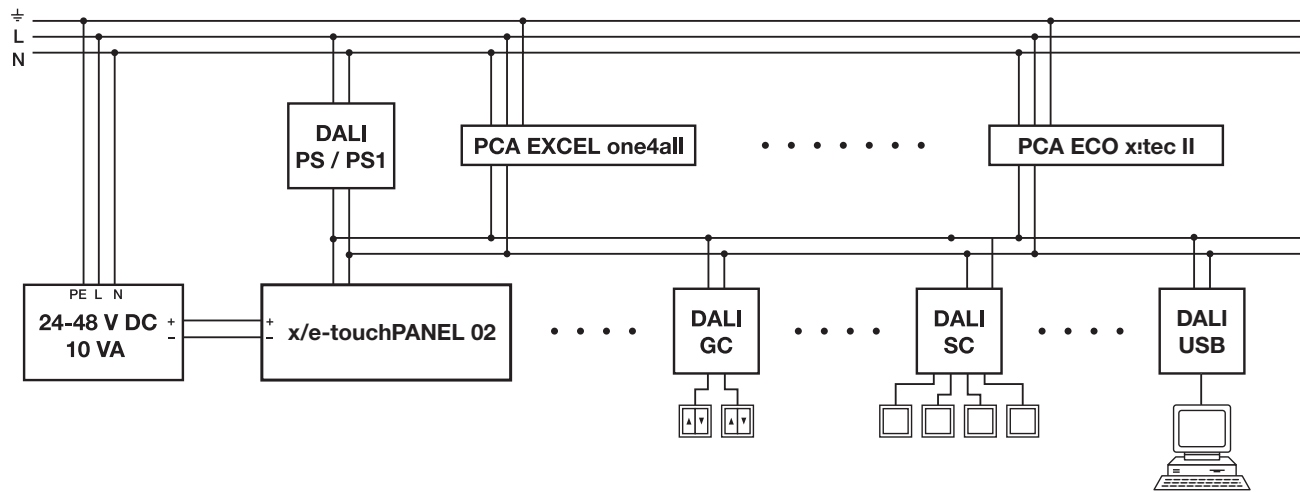
DALI MC



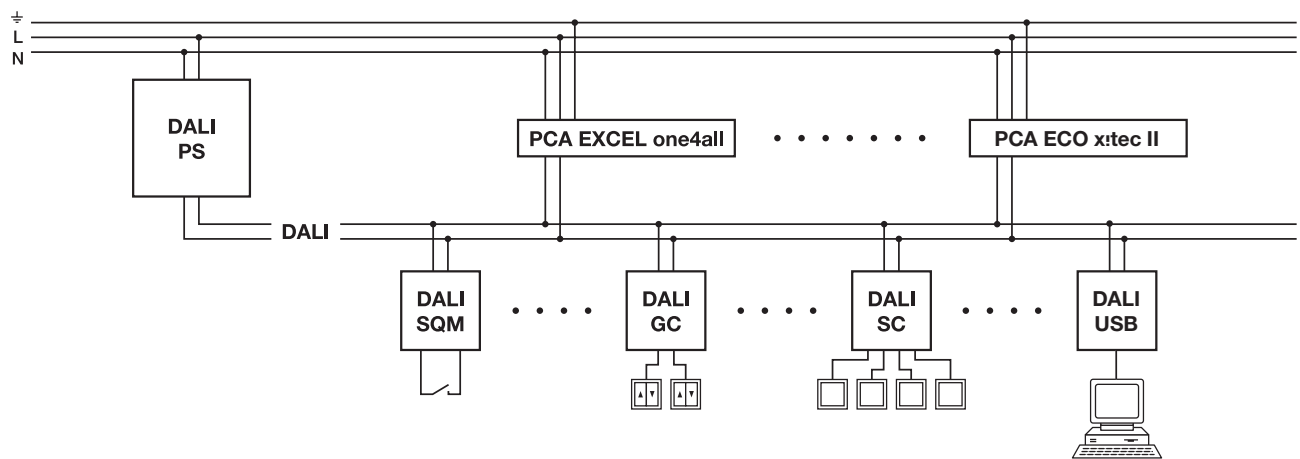
DALI TOUCHPANEL 02



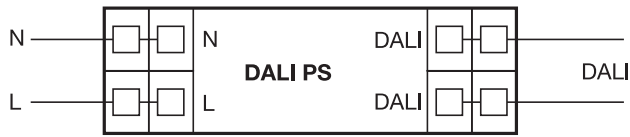
DALI x/e-touchPANEL 02



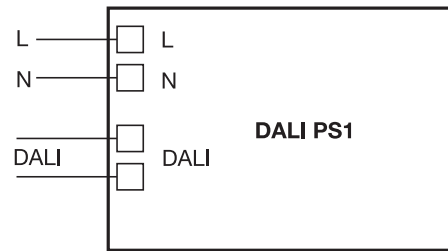
DALI SQM



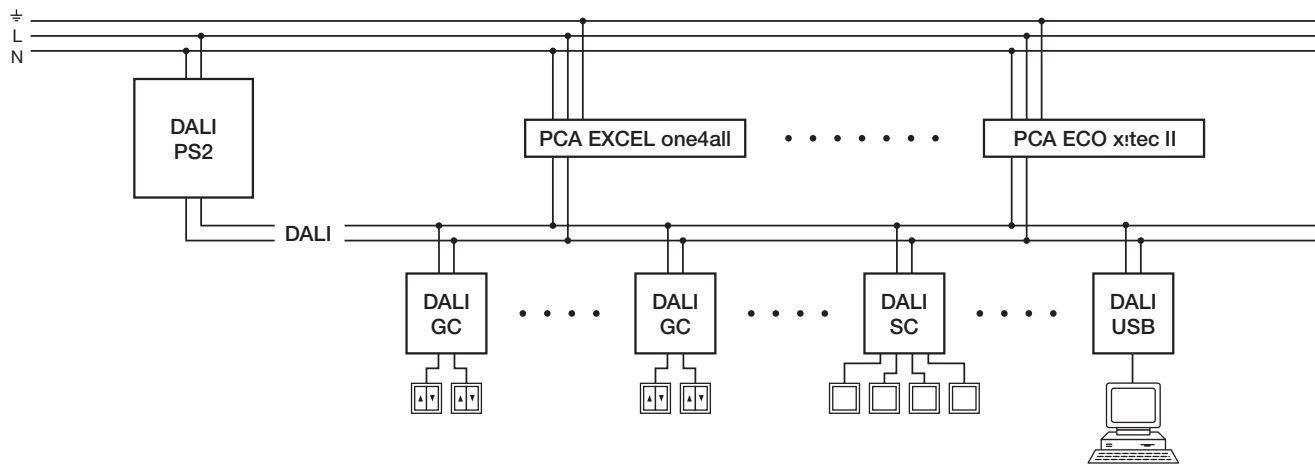
DALI PS



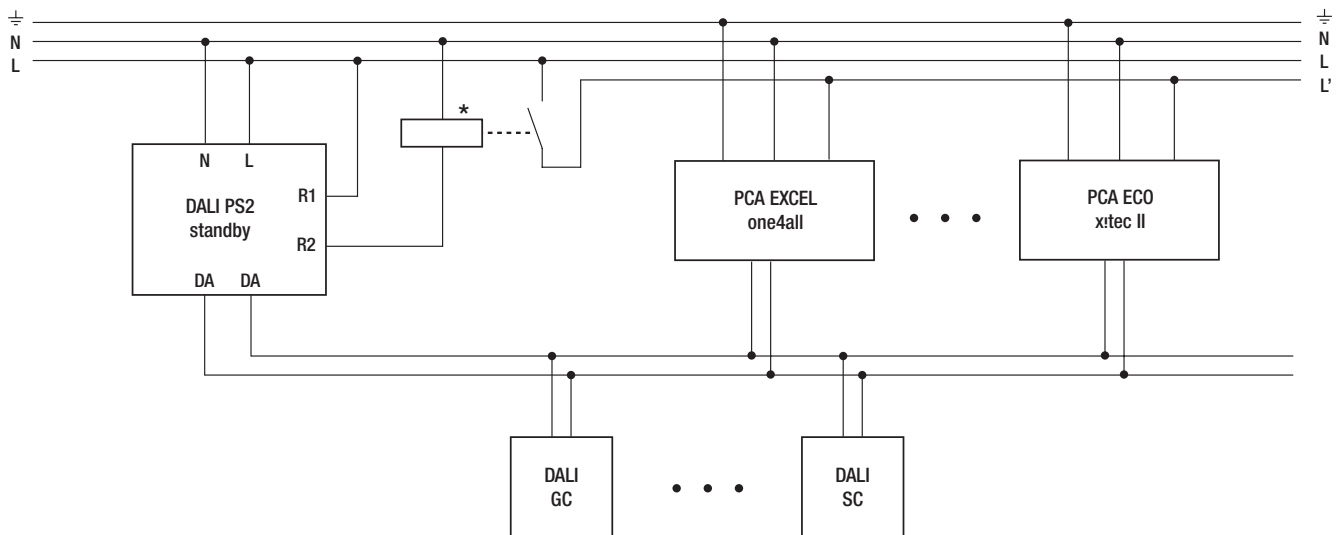
DALI PS1



DALI PS2

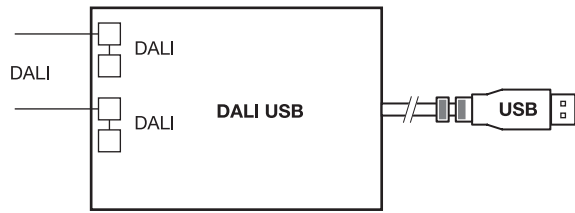


DALI PS2 standby

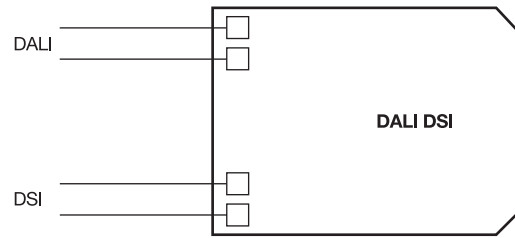


\* DALI control modules that have their own power supply must not be connected to the switched phase L'  
\*\* The inrush currents of the ECG must be taken into account when dimensioning the contactor

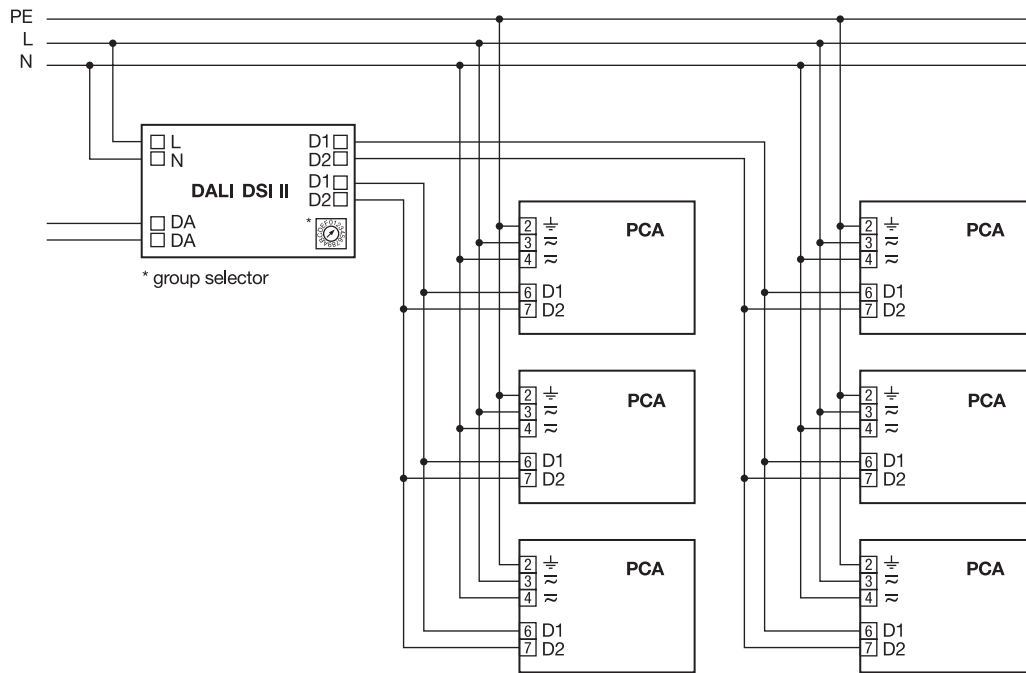
DALI USB



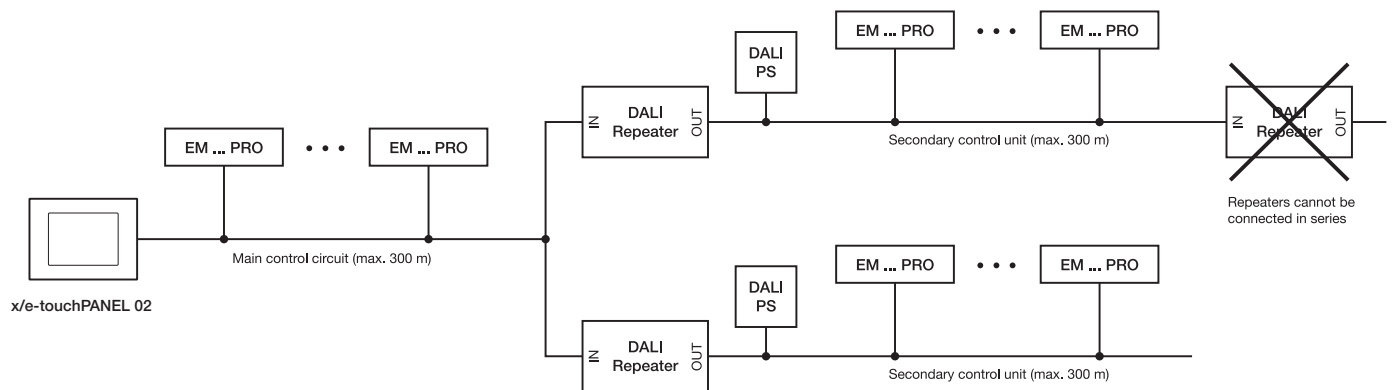
DALI DSI



DALI DSI II

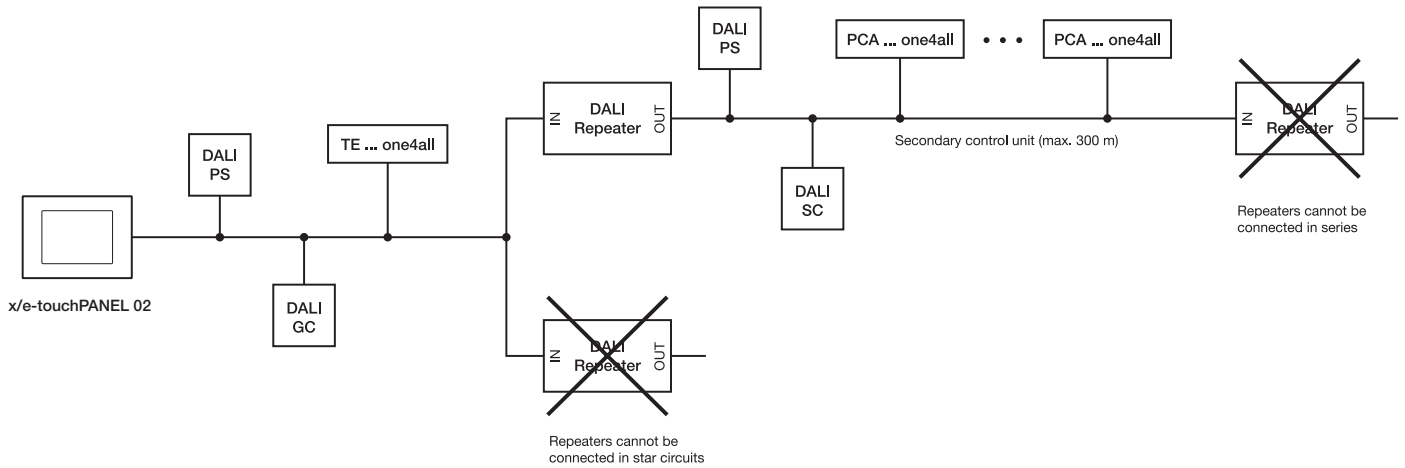


DALI Repeater – with one controller

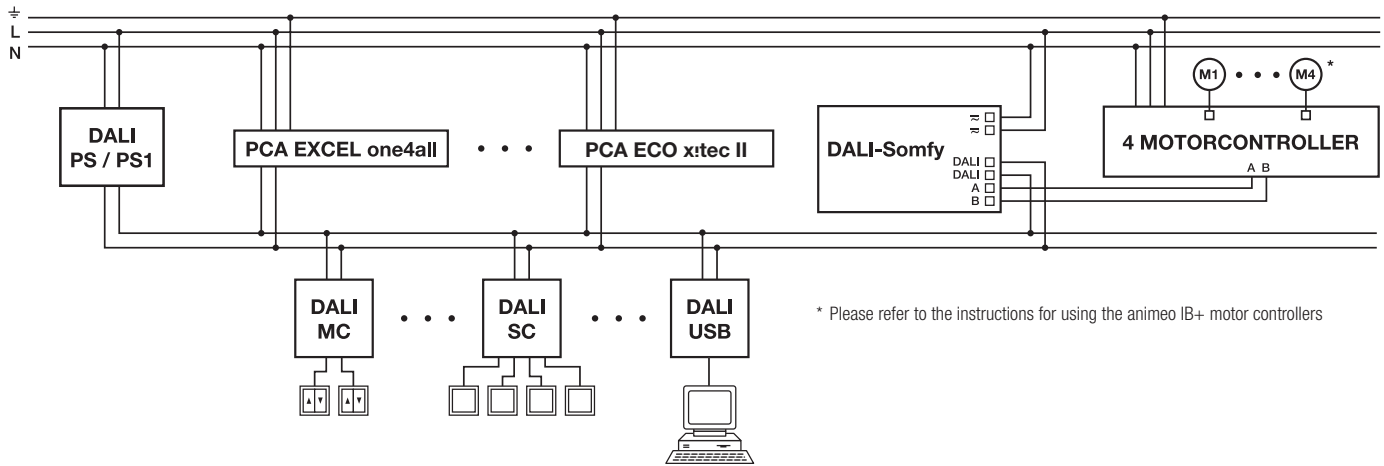




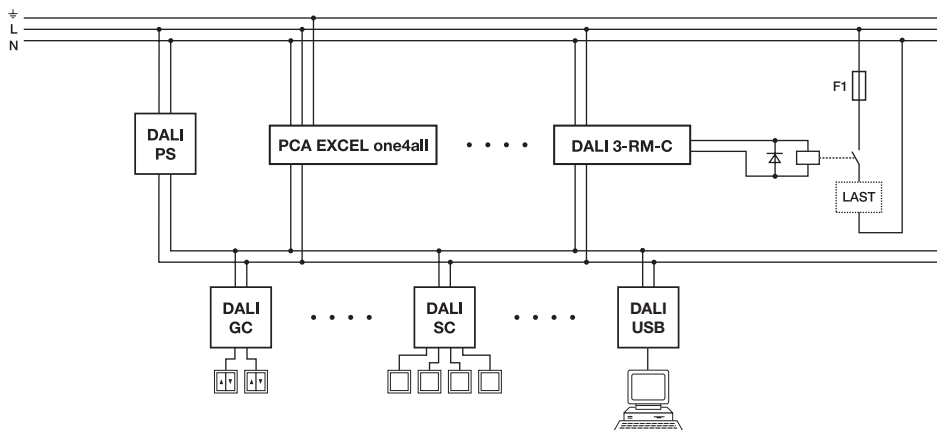
DALI Repeater – with multiple controllers



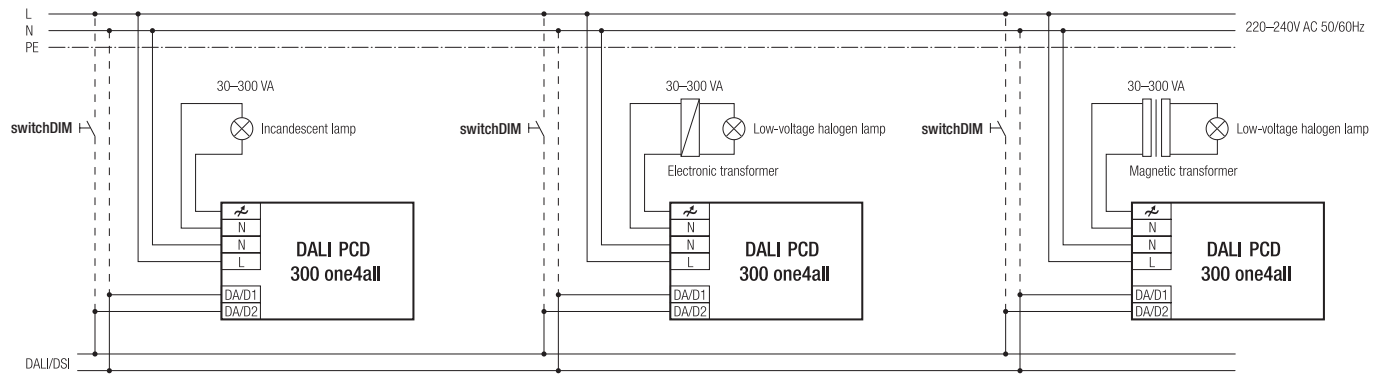
DALI Somfy animeo interface



DALI 3-RM-C

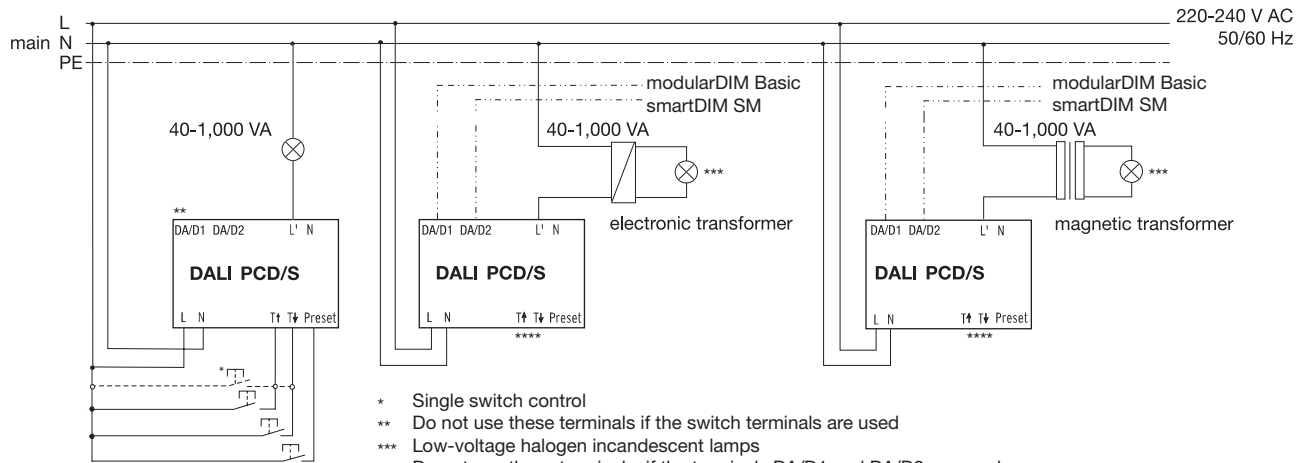


DALI PCD 300 one4all



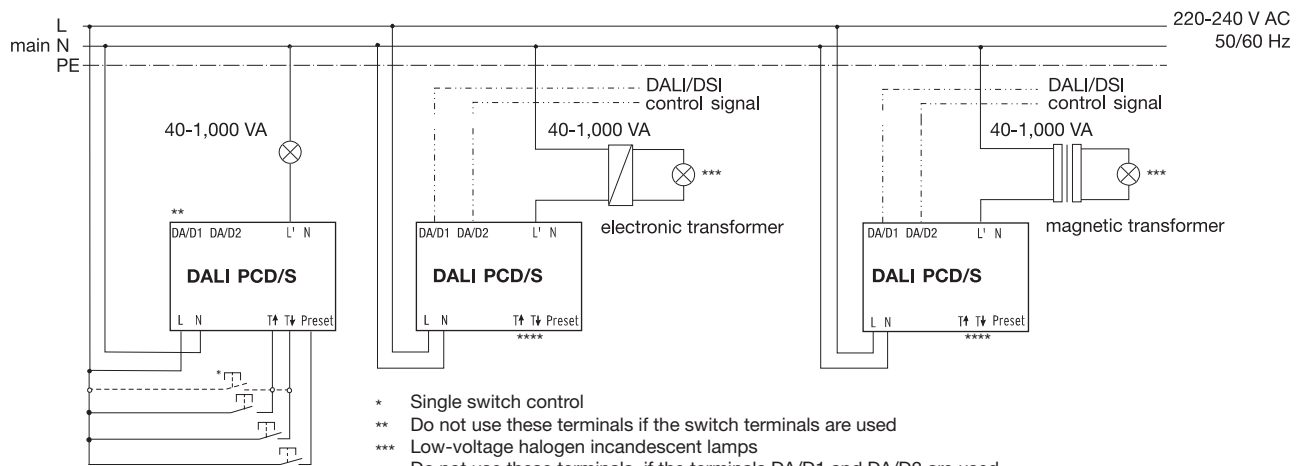
Mixed loads (capacitive, inductive and resistive) can be used.

DALI PCD/S – circuit 1



- \* Single switch control
- \*\* Do not use these terminals if the switch terminals are used
- \*\*\* Low-voltage halogen incandescent lamps
- \*\*\*\* Do not use these terminals, if the terminals DA/D1 and DA/D2 are used

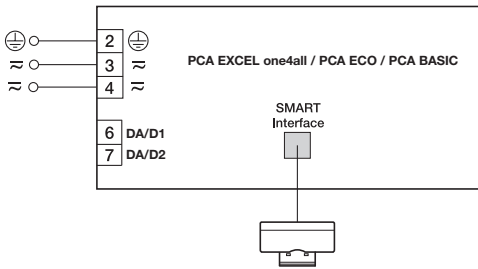
DALI-PCD/S – circuit 2



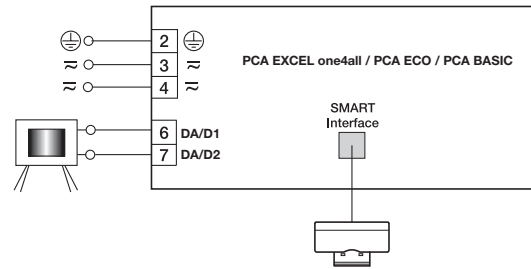
- \* Single switch control
- \*\* Do not use these terminals if the switch terminals are used
- \*\*\* Low-voltage halogen incandescent lamps
- \*\*\*\* Do not use these terminals, if the terminals DA/D1 and DA/D2 are used

**SMART Sensor 5D 19f**

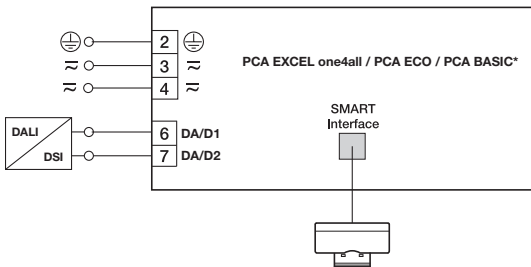
ON/OFF switch directly via mains voltage



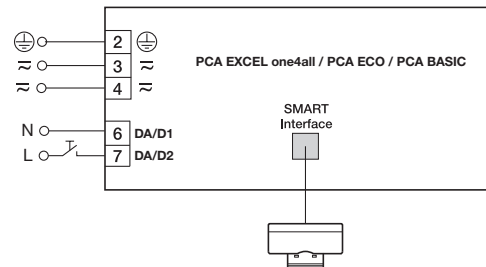
corridorFUNCTION with external motion sensor



DSI/DALI

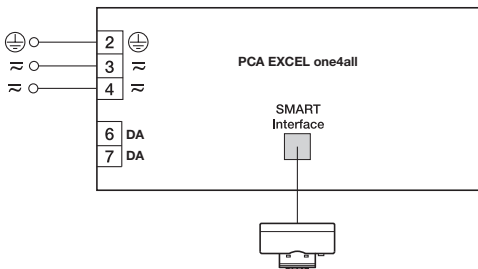


switchDIM

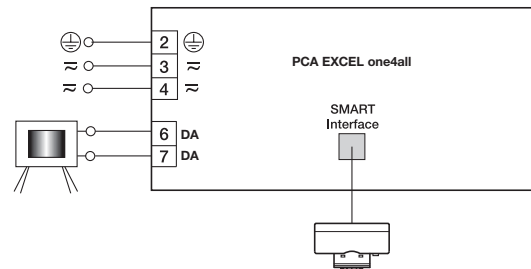


**SMART Sensor 5DP 19f**

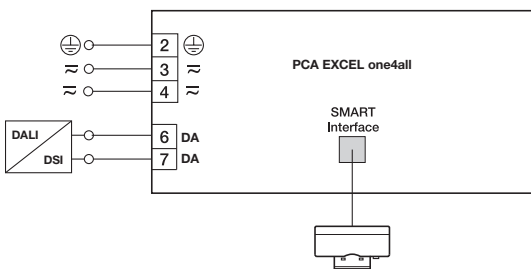
corridorFUNCTION with integrated motion sensor



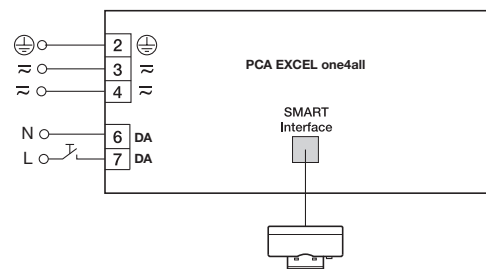
corridorFUNCTION with external motion sensor



DSI/DALI

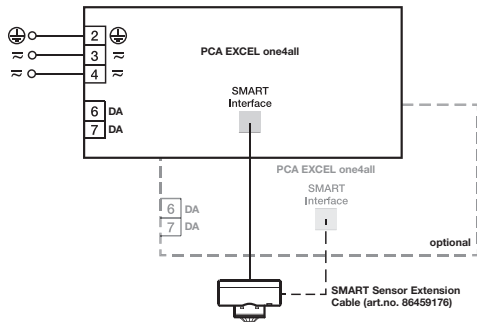


switchDIM

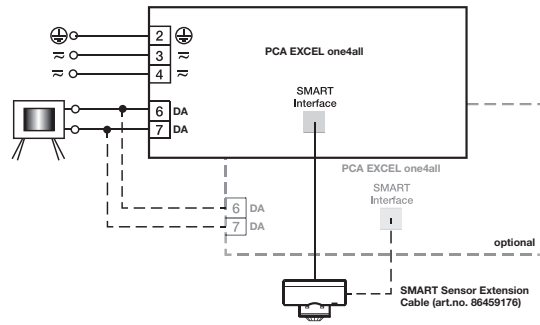


SMART Sensor 5DPI 19f / SMART Sensor 10DPI 19f

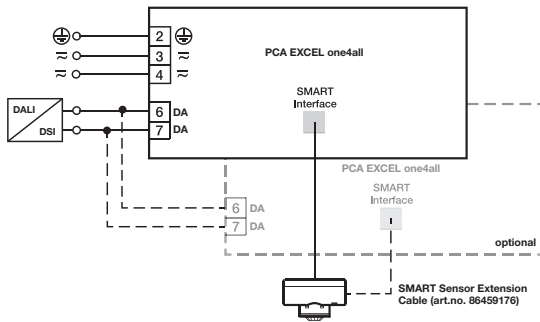
corridorFUNCTION with integrated motion sensor



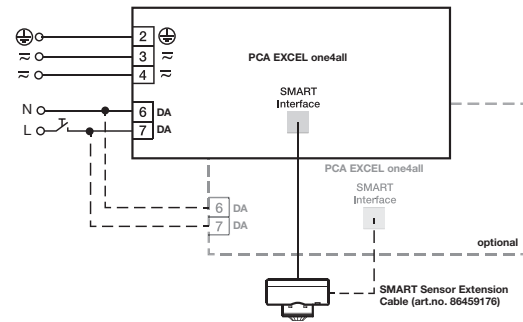
corridorFUNCTION with external motion sensor



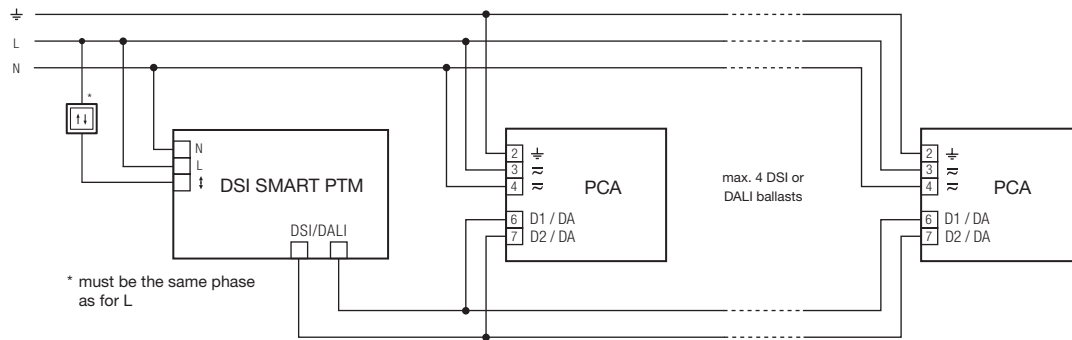
DSI/DALI



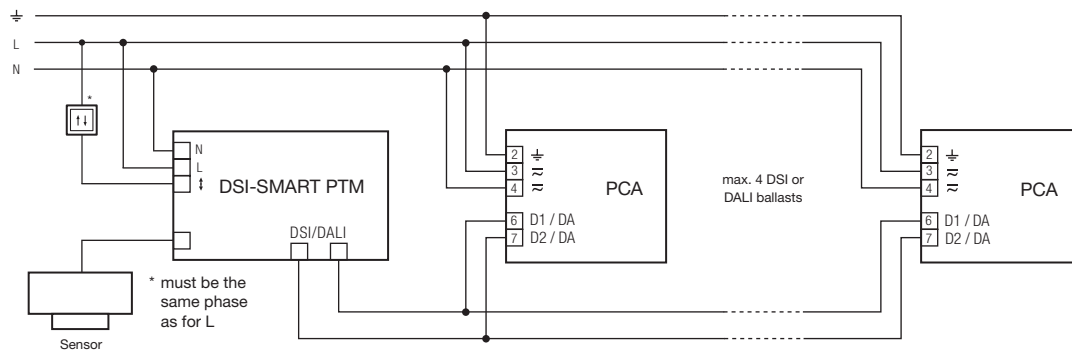
switchDIM



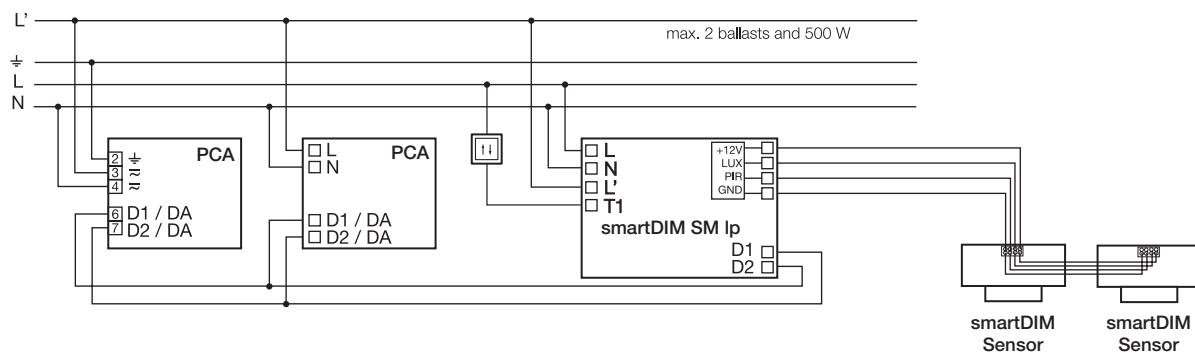
DSI SMART PTM – luminaire installation / surface mounting



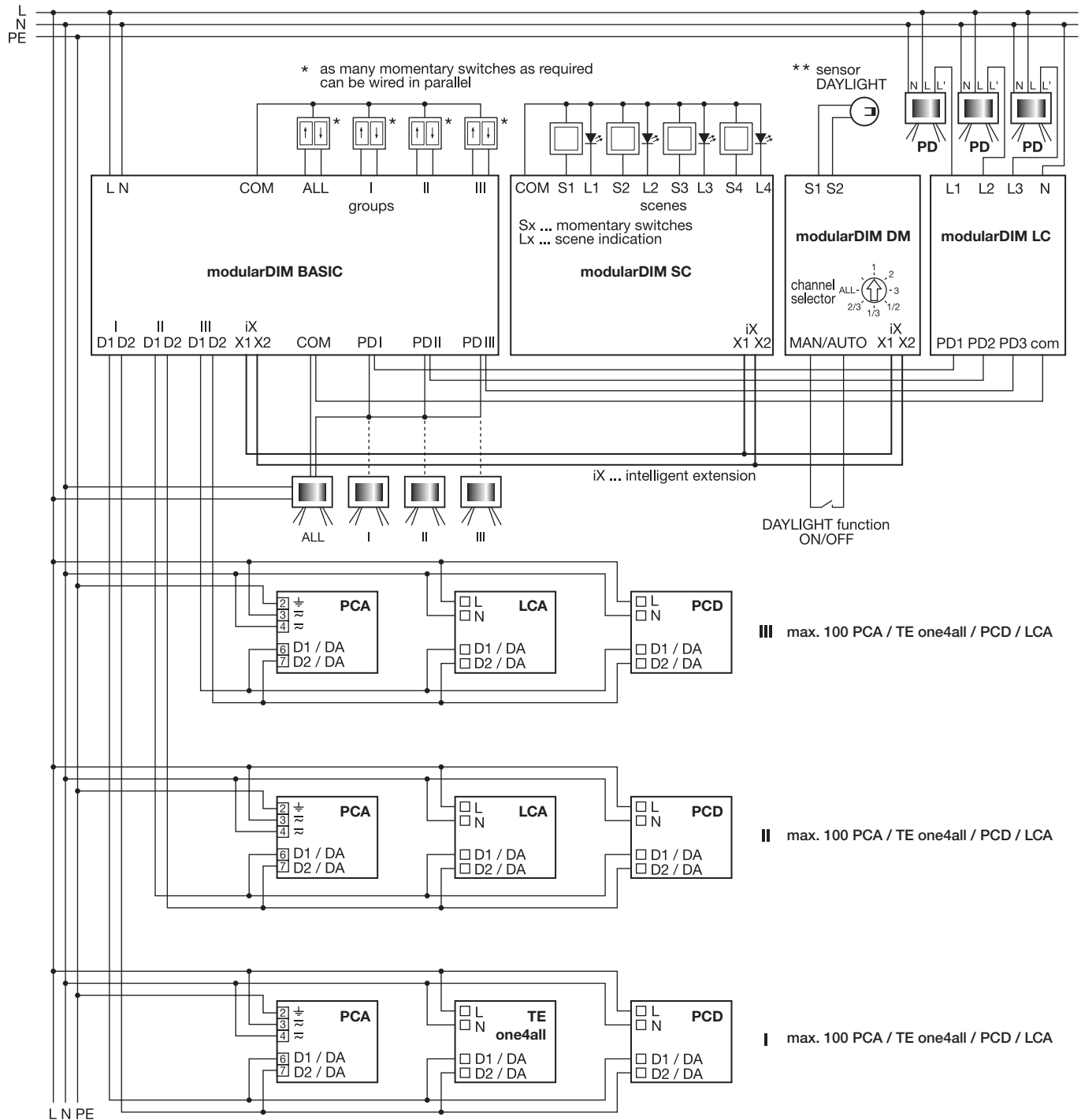
DSI SMART PTM – ceiling installation



smartDIM SM Ip



modularDIM

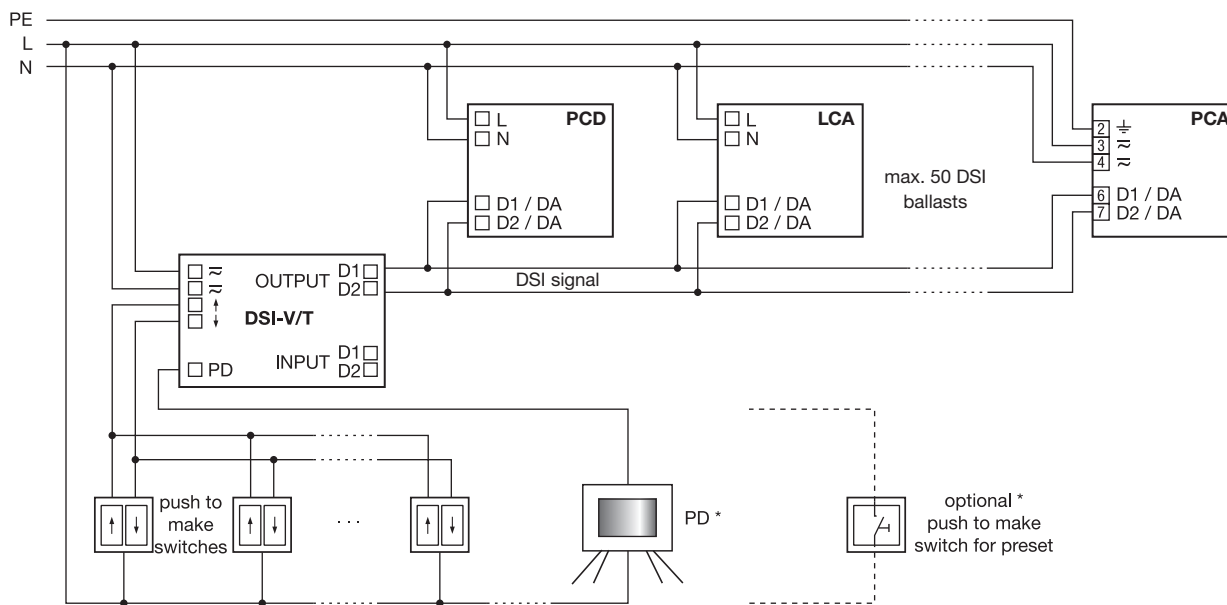


\*\* the light sensor "sensor DAYLIGHT" is to be installed with free view direction window (consider mounting instruction)

maximum wire lengths:

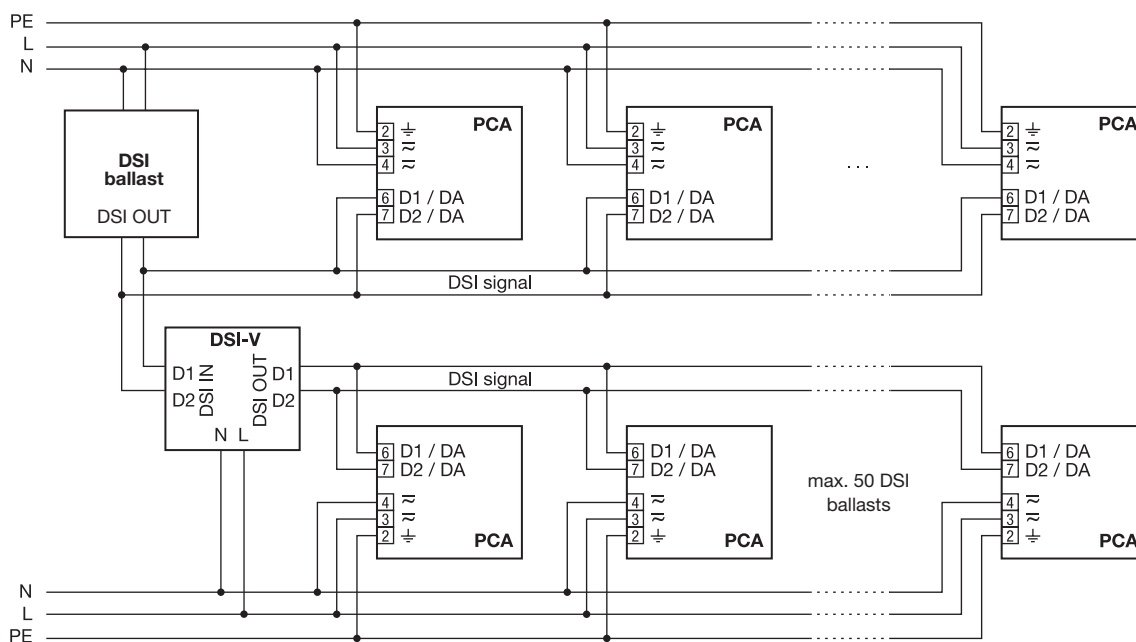
- DSI: max. 250 m
- momentary switch: max. 100 m
- scene indication: max. 100 m
- iX: max. 10 m
- sensor DAYLIGHT: max. 100 m
- DAYLIGHT function ON/OFF: max. 100 m

DSI-V/T – DSI-T function



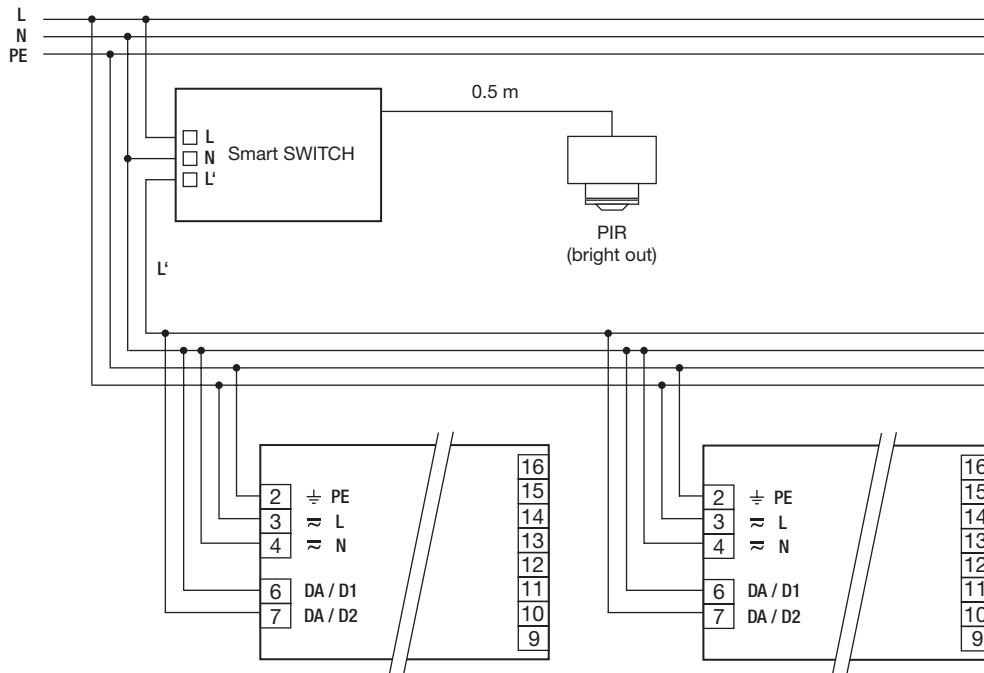
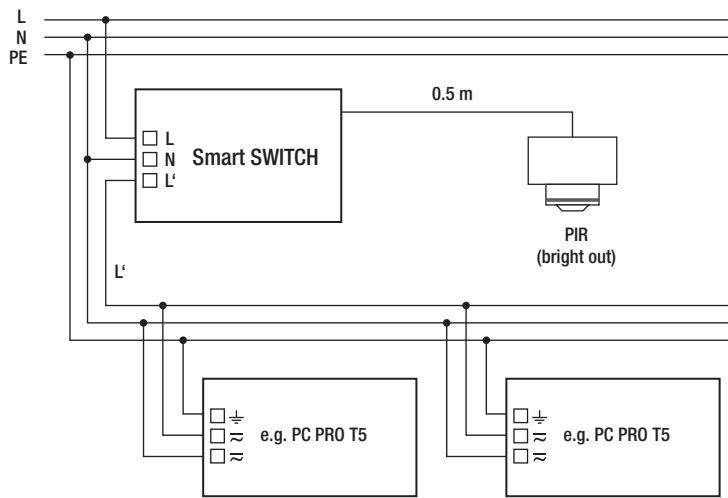
\* Either control via PD or scene control with push to make switches.

DSI-V/T – DSI-V function



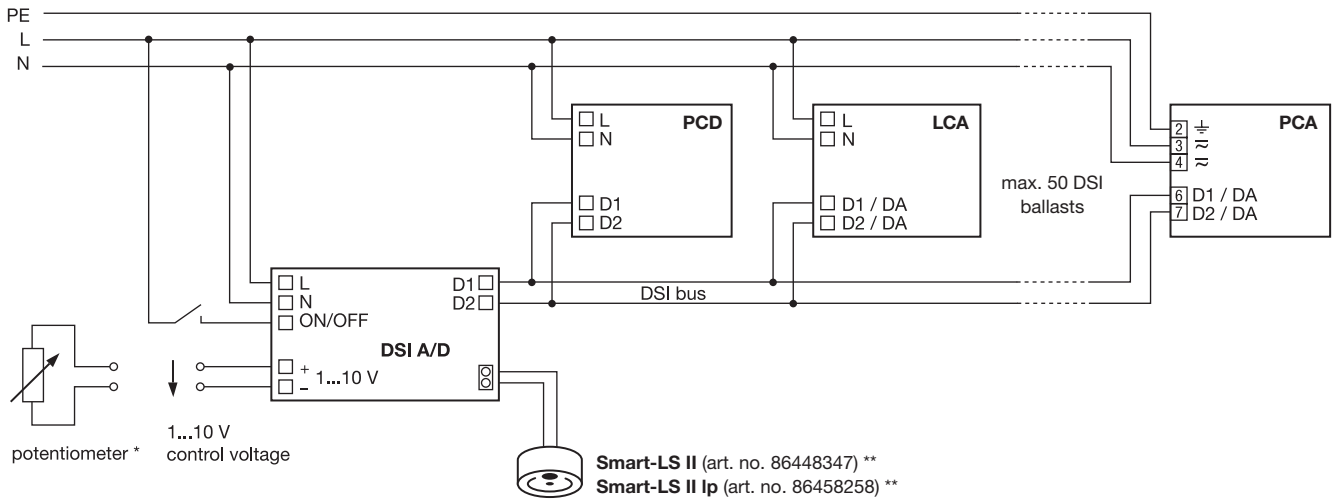
**Cable length:** Cable lengths of up to 500 m can be achieved by concatenating individual DSI-V/Ts. This maximum cable length can only be guaranteed in DSI-V mode if the DSI-V/T is operated as the only load, otherwise the maximum cable length is 250 m for a 1.5 mm<sup>2</sup>.

Smart SWITCH II



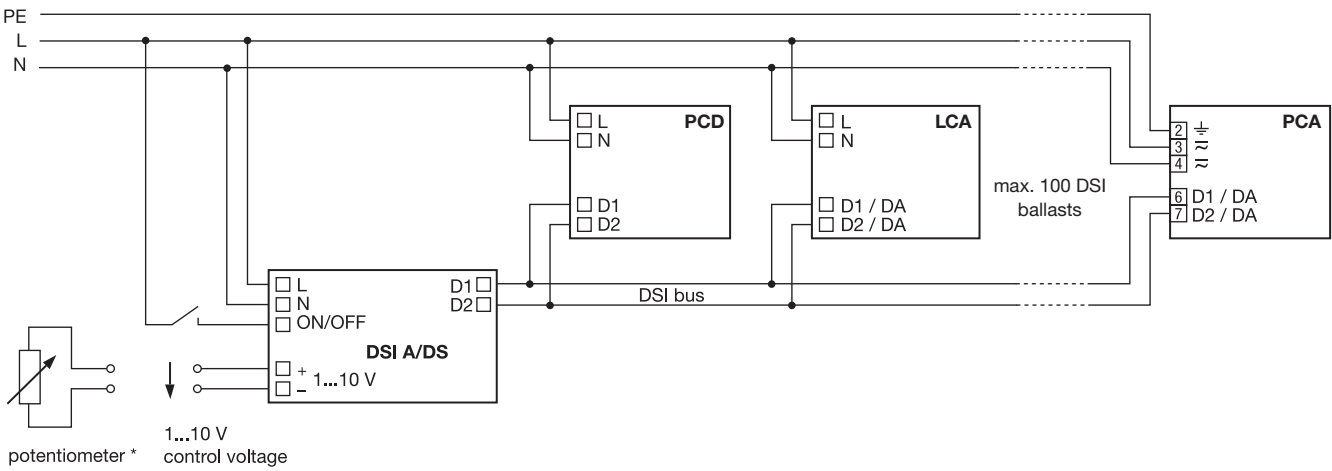


DSI-A/D



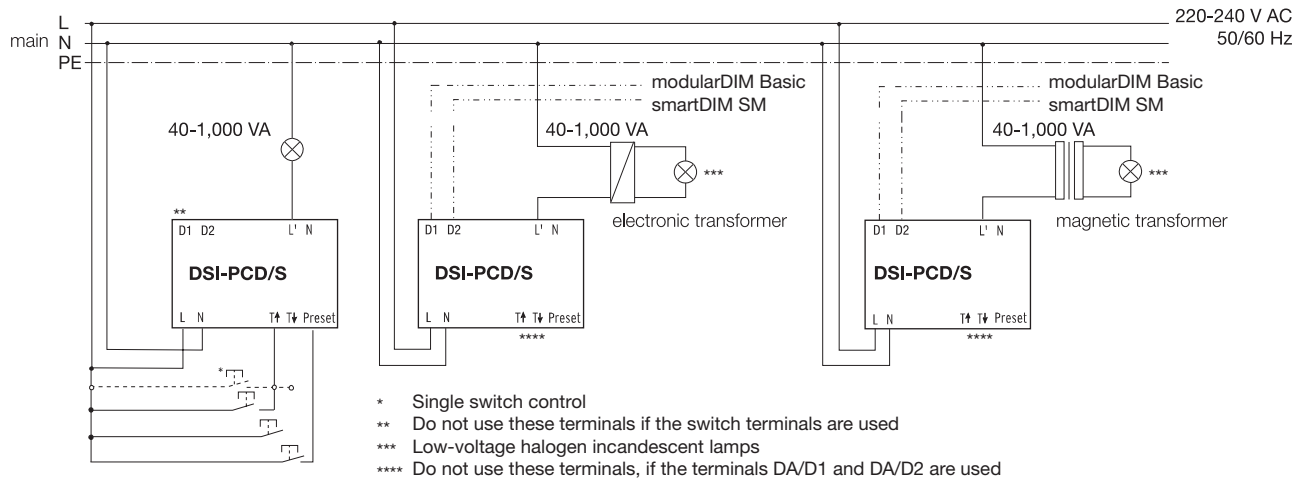
- \* If potentiometer with linear characteristic optimum 47 kΩ (47-100 kΩ possible), load  $\geq 0.5$  W
- \*\* If a Smart-LS II sensor is connected, the 1...10 V function is disabled

DSI-A/DS

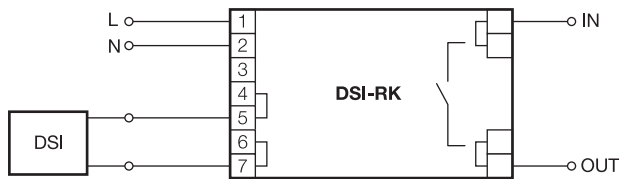


- \* If potentiometer with linear characteristic optimum 47 kΩ (47-100 kΩ possible), load  $\geq 0.5$  W

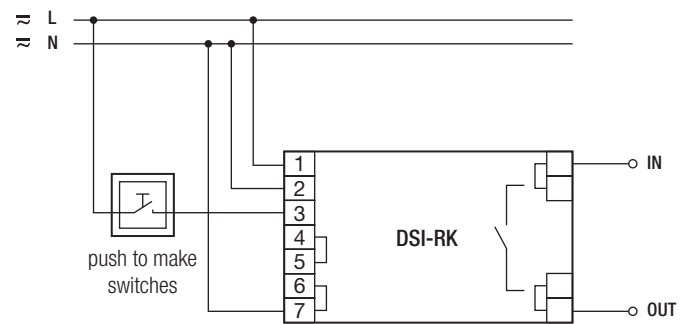
DSI-PCD/S



DSI-RK (DSI)



DSI-RK (switchDIM)







TRIDONIC guarantee conditions Page 464

Energy classification table for lighting systems  
in accordance with EUP directive 2005/32/EC Page 466

TRIDONIC sales organisation Page 468

Approval marks and symbols Page 473

Standards Page 475

## TRIDONIC guarantee conditions

Tridonic stands for high quality products and services. Guarantee for lighting components, management systems, LED-modules and -systems exceeds usual legal guarantee.

Tridonic offers a 5-year guarantee on all devices with a rated life of at least 50,000 hours of operation. A guarantee of 3 years is offered on devices with a rated life of less than 50,000 hours of operation.

Batteries are excluded from this guarantee.

### 1. Products

This guarantee applies to all electronic control gear supplied by Tridonic (electronic ballasts for fluorescent lamps, electronic ballasts for HID lamps, electronic transformers, emergency units, converters and control units for LED light sources) as well as LED light sources.

### 2. Duration of the guarantee

The guarantee period for Tridonic products is 3, 5 or 8 years.

#### 2a. Basic guarantee

For products with a physical rated life of  $\geq 50,000$  hours of operation or more, Tridonic offers a guarantee for a period of 5 years under the following conditions. To ensure that the product guarantee matches the guarantee offered by the luminaire manufacturer, the guarantee is extended by a further 6 months from the date of manufacture indicated on the product, up to a maximum of 66 months from the date of manufacture.

This applies to those products for which a rated life of  $\geq 50,000$  hours of operation is indicated in the data sheets and for all TALEX LED light sources.

#### 2b. Limited guarantee

For products with a physical rated life of less than 50,000 hours of operation, Tridonic offers a guarantee for a period of 3 years under the following conditions. To ensure that the product guarantee matches the guarantee offered by the luminaire manufacturer, the guarantee is extended by a further 6 months from the date of manufacture indicated on the product, up to a maximum of 42 months from the date of manufacture. This applies to those products for which a rated life of  $< 50,000$  hours of operation is indicated in the data sheets, e.g. PC-R and VIPER.

#### 2c. Extended guarantee for PC INDUSTRY

An extended guarantee of 8 years is offered on the PC INDUSTRY series. This guarantee makes allowance for a 6-month period for dispatch, storage and manufacture. The maximum guarantee period is therefore 102 months after production.

### 3. Guarantee conditions

The guarantee offered by Tridonic is valid under the following conditions:

The products from Tridonic must be used in accordance with the relevant product and application specifications. Limit values for temperatures and voltages must not be exceeded and the product not exposed to any mechanical stresses.

The guarantee for electronic operating devices applies only if the product is installed with lamps that comply with the relevant IEC specifications.

The guarantee covers solely product failures caused by material, design or production faults and failure rates that exceed the rated failure rate. The rated life and rated failure rate of a device are considered to be the values defined in the technical documentation.



#### 4. Execution of the guarantee

In the event of failures exceeding the nominal failure rate, Tridonic on its sole discretion might decide to repair defective components or products, supply adequate products as replacement or reimburse products to original customers. The customers or end customers bear the costs for demounting and remounting as well as for sending in and returning products. Any other costs, e.g. replacement costs upon installation, costs caused from failures of the installation or other damage and/or consequential damage are not covered by this guarantee.

The indicated lifetime is achieved by operating lighting components according to the conditions specified by the manufacturers, to the relevant international standards and in accordance with local regulations. All electronic products having an expected failure rate require continuous monitoring, which must be documented in writing.

In view of the statistical failure rate of electronic products, installations with electronic operating devices and LED light sources require regular maintenance. The products must therefore be easy to access at all times. When installing the products, the requirements of easy maintenance must therefore be taken into consideration to keep maintenance costs down.

If simple replacement is not carried out in good time, the end customer must be informed of the additional costs that may arise in connection with standard maintenance. In designing and installing luminaires, it should be remembered that the controller, ballast and/or LED light source may have to be replaced before the luminaire comes to the end of its life.

#### Additional Information for LED modules

The guarantee conditions relate exclusively to mortality beyond the nominal failure rate. In view of technical advances and the changes in the luminous flux of products depending on their usage there may be differences in the photometric properties between replacement or additional LED modules and the original products.

#### 5. Utilisation of the Guarantee

The guarantee has to be claimed immediately by returning the defective product in order to check the validity of the claim.

#### 6. Applicable Law

See the conditions supplied with the invoice.

## Energy classification table for lighting systems in accordance with EUP directive 2005/32/EC

Lamp data					Ballast efficiency (Plamp / Pinput)						
Lamp type	Nominal wattage	ILCOS code	Rated / typical wattage		Non-dimmable						
			50 Hz	HF	A1 BAT	A1	A2 BAT	A2	A3	B1	B2
	W		W	W	W						
T8	15	FD-15-E-G13-26/450	15	13.5	84.4 %	75.0 %	87.8 %	84.4 %	75.0 %	67.9 %	62.0 %
T8	18	FD-18-E-G13-26/600	18	16	84.2 %	76.2 %	87.7 %	84.2 %	76.2 %	71.3 %	65.8 %
T8	30	FD-30-E-G13-26/900	30	24	77.4 %	72.7 %	82.1 %	77.4 %	72.7 %	79.2 %	75.0 %
T8	36	FD-36-E-G13-26/1200	36	32	88.9 %	84.2 %	91.4 %	88.9 %	84.2 %	83.4 %	79.5 %
T8	38	FD-38-E-G13-26/1050	38.5	32	84.2 %	80.0 %	87.7 %	84.2 %	80.0 %	84.1 %	80.4 %
T8	58	FD-58-E-G13-26/1500	58	50	90.9 %	84.7 %	93.0 %	90.9 %	84.7 %	86.1 %	82.2 %
T8	70	FD-70-E-G13-26/1800	69.5	60	88.2 %	83.3 %	90.9 %	88.2 %	83.3 %	86.3 %	83.1 %
TC-L	18	FSD-18-E-2G11	18	16	84.2 %	76.2 %	87.7 %	84.2 %	76.2 %	71.3 %	65.8 %
TC-L	24	FSD-24-E-2G11	24	22	88.0 %	81.5 %	90.7 %	88.0 %	81.5 %	76.0 %	71.3 %
TC-L	36	FSD-36-E-2G11	36	32	88.9 %	84.2 %	91.4 %	88.9 %	84.2 %	83.4 %	79.5 %
TCF	18	FSS-18-E-2G10	18	16	84.2 %	76.2 %	87.7 %	84.2 %	76.2 %	71.3 %	65.8 %
TCF	24	FSS-24-E-2G10	24	22	88.0 %	81.5 %	90.7 %	88.0 %	81.5 %	76.0 %	71.3 %
TCF	36	FSS-36-E-2G10	36	32	88.9 %	84.2 %	91.4 %	88.9 %	84.2 %	83.4 %	79.5 %
TC-D / DE	10	FSQ-10-E-G24q=1 FSQ-10-I-G24d=1	10	9.5	86.4 %	73.1 %	89.4 %	86.4 %	73.1 %	67.9 %	59.4 %
TC-D / DE	13	FSQ-13-E-G24q=1 FSQ-13-I-G24d=1	13	12.5	89.3 %	78.1 %	91.7 %	89.3 %	78.1 %	72.6 %	65.0 %
TC-D / DE	18	FSQ-18-E-G24q=2 FSQ-18-I-G24d=2	18	16.5	86.8 %	78.6 %	89.8 %	86.8 %	78.6 %	71.3 %	65.8 %
TC-D / DE	26	FSQ-26-E-G24q=3 FSQ-26-I-G24d=3	26	24	88.9 %	82.8 %	91.4 %	88.9 %	82.8 %	77.2 %	72.6 %
TC-T / TE	13	FSM-13-E-GX24q=1 FSM-13-I-GX24d=1	13	12.5	89.3 %	78.1 %	91.7 %	89.3 %	78.1 %	72.6 %	65.0 %
TC-T / TE	18	FSM-18-E-GX24q=2 FSM-18-I-GX24d=2	18	16.5	86.8 %	78.6 %	89.8 %	86.8 %	78.6 %	71.3 %	65.8 %
TC-T / TC-TE	26	FSM-26-E-GX24q=3 FSM-26-I-GX24d=3	26.5	24	88.9 %	82.8 %	91.4 %	88.9 %	82.8 %	77.5 %	73.0 %
TC-DD / DDE	10	FSS-10-E-GR10q FSS-10-L/P/H-GR10q	10.5	9.5	82.6 %	70.4 %	86.4 %	82.6 %	70.4 %	68.8 %	60.5 %
TC-DD / DDE	16	FSS-16-E-GR10q FSS-16-I-GR8 FSS-16-L/P/H-GR10q	16	15	83.3 %	75.0 %	87.0 %	83.3 %	75.0 %	72.4 %	66.1 %
TC-DD / DDE	21	FSS-21-E-GR10q FSS-21-L/P/H-GR10q	21	19.5	86.7 %	78.0 %	89.7 %	86.7 %	78.0 %	73.9 %	68.8 %
TC-DD / DDE	28	FSS-28-E-GR10q FSS-28-I-GR8 FSS-28-L/P/H-GR10q	28	24.5	86.0 %	80.3 %	89.1 %	86.0 %	80.3 %	78.2 %	73.9 %
TC-DD / DDE	38	FSS-38-E-GR10q FSS-38-L/P/H-GR10q	38.5	34.5	89.6 %	85.2 %	92.0 %	89.6 %	85.2 %	84.1 %	80.4 %
TC	5	FSD-5-I-G23 FSD-5-E-2G7	5.4	5	66.7 %	58.8 %	72.7 %	66.7 %	58.8 %	49.3 %	41.4 %
TC	7	FSD-7-I-G23 FSD-7-E-2G7	7.1	6.5	72.2 %	65.0 %	77.6 %	72.2 %	65.0 %	55.7 %	47.8 %
TC	9	FSD-9-I-G23 FSD-9-E-2G7	8.7	8	72.7 %	66.7 %	78.0 %	72.7 %	66.7 %	60.3 %	52.6 %
TC	11	FSD-11-I-G23 FSD-11-E-2G7	11.8	11	78.6 %	73.3 %	83.0 %	78.6 %	73.3 %	66.7 %	59.6 %
T5	4	FD-4-E-G5-16/150	4.5	3.6	58.1 %	50.0 %	64.9 %	58.1 %	50.0 %	45.0 %	37.2 %
T5	6	FD-6-E-G5-16/225	6	5.4	65.1 %	58.1 %	71.3 %	65.1 %	58.1 %	51.8 %	43.8 %



Lamp data					Ballast efficiency (Plamp / Pinput)						
Lamp type	Nominal wattage	ILCOS code	Rated / typical wattage		A1 BAT	A1	A2 BAT	A2	A3	B1	B2
			50 Hz	HF							
	W		W	W							
T5	8	FD-8-E-G5-16/300	7.1	7.5	63.6 %	58.6 %	69.9 %	63.6 %	58.6 %	48.9 %	42.7 %
T5	13	FD-13-E-G5-16/525	13	12.8	80.0 %	75.3 %	84.2 %	80.0 %	75.3 %	72.6 %	65.0 %
T9-C	22	FSC-22-E-G10q-29/200	22	19	86.4 %	79.2 %	89.4 %	86.4 %	79.2 %	74.6 %	69.7 %
T9-C	32	FSC-32-E-G10q-29/300	32	30	85.7 %	81.1 %	88.9 %	85.7 %	81.1 %	80.0 %	76.0 %
T9-C	40	FSC-40-E-G10q-29/400	40	32	86.5 %	82.1 %	89.5 %	86.5 %	82.1 %	82.6 %	79.2 %
T2	6	FDH-6-L/P-W4.3x8.5d-7/220		5	66.7 %	58.8 %	72.7 %	66.7 %	58.8 %		
T2	8	FDH-8-L/P-W4.3x8.5d-7/320		7.8	70.9 %	65.0 %	76.5 %	70.9 %	65.0 %		
T2	11	FDH-11-L/P-W4.3x8.5d-7/420		10.8	77.1 %	72.0 %	81.8 %	77.1 %	72.0 %		
T2	13	FDH-13-L/P-W4.3x8.5d-7/520		13.3	80.6 %	76.0 %	84.7 %	80.6 %	76.0 %		
T2	21	FDH-21-L/P-W4.3x8.5d-7/		21	85.7 %	79.2 %	88.9 %	85.7 %	79.2 %		
T2	23	FDH-23-L/P-W4.3x8.5d-7/		23	86.8 %	80.7 %	89.8 %	86.8 %	80.7 %		
T5-E	14	FDH-14-G5-L/P-16/550		13.7	80.6 %	72.1 %	84.7 %	80.6 %	72.1 %		
T5-E	21	FDH-21-G5-L/P-16/850		20.7	86.3 %	79.6 %	89.3 %	86.3 %	79.6 %		
T5-E	24	FDH-24-G5-L/P-16/550		22.5	86.5 %	80.4 %	89.6 %	86.5 %	80.4 %		
T5-E	28	FDH-28-G5-L/P-16/1150		27.8	86.9 %	81.8 %	89.8 %	86.9 %	81.8 %		
T5-E	35	FDH-35-G5-L/P-16/1450		34.7	89.0 %	82.6 %	91.5 %	89.0 %	82.6 %		
T5-E	39	FDH-39-G5-L/P-16/850		38	88.4 %	82.6 %	91.0 %	88.4 %	82.6 %		
T5-E	49	FDH-49-G5-L/P-16/1450		49.3	89.2 %	84.6 %	91.6 %	89.2 %	84.6 %		
T5-E	54	FDH-54-G5-L/P-16/1150		53.8	89.7 %	85.4 %	92.0 %	89.7 %	85.4 %		
T5-E	80	FDH-80-G5-L/P-16/1150		80	90.9 %	87.0 %	93.0 %	90.9 %	87.0 %		
T5-E	95	FDH-95-G5-L/P-16/1150		95	90.5 %	84.1 %	92.7 %	90.5 %	84.1 %		
T5-E	120	FDH-120-G5-L/P-16/1450		120	90.2 %	84.5 %	92.5 %	90.2 %	84.5 %		
T5-C	22	FSCH-22-L/P-2GX13-16/225		22.3	84.8 %	78.8 %	88.1 %	84.8 %	78.8 %		
T5-C	40	FSCH-40-L/P-2GX13-16/300		39.9	88.9 %	83.3 %	91.4 %	88.9 %	83.3 %		
T5-C	55	FSCH-55-L/P-2GX13-16/300		55	90.2 %	84.6 %	92.4 %	90.2 %	84.6 %		
T5-C	60	FSCH-60-L/P-2GX13-16/375		60	90.9 %	85.7 %	93.0 %	90.9 %	85.7 %		
TC-LE	40	FSDH-40-L/P-2G11		40	88.9 %	83.3 %	91.4 %	88.9 %	83.3 %		
TC-LE	55	FSDH-55-L/P-2G11		55	90.2 %	84.6 %	92.4 %	90.2 %	84.6 %		
TC-LE	80	FSDH-80-L/P-2G11		80	90.9 %	87.0 %	93.0 %	90.9 %	87.0 %		
TC-TE	32	FSMH-32-L/P-2GX24q=3		32	88.9 %	82.1 %	91.4 %	88.9 %	82.1 %		
TC-TE	42	FSMH-42-L/P-2GX24q=4		43	91.5 %	86.0 %	93.5 %	91.5 %	86.0 %		
TC-TE	57	FSM6H-57-L/P-2GX24q=5 FSM8H-57-L/P-2GX24q=5		56	88.9 %	83.6 %	91.4 %	88.9 %	83.6 %		
TC-TE	70	FSM6H-70-L/P-2GX24q=6 FSM8H-70-L/P-2GX24q=6		70	90.9 %	85.4 %	93.0 %	90.9 %	85.4 %		
TC-TE	60	FSM6H-60-L/P-2G8=1		63	90.0 %	84.0 %	92.3 %	90.0 %	84.0 %		
TC-TE	62	FSM8H-62-L/P-2G8=2		62	89.9 %	83.8 %	92.2 %	89.9 %	83.8 %		
TC-TE	82	FSM8H-82-L/P-2G8=2		82	90.1 %	83.7 %	92.4 %	90.1 %	83.7 %		
TC-TE	85	FSM6H-85-L/P-2G8=1		87	90.6 %	84.5 %	92.8 %	90.6 %	84.5 %		
TC-TE	120	FSM6H-120-L/P-2G8=1 FSM8H-120-L/P-2G8=1		122	90.4 %	84.7 %	92.6 %	90.4 %	84.7 %		
TC-DD	55	FSSH-55-L/P-GR10q3		55	90.2 %	84.6 %	92.4 %	90.2 %	84.6 %		

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## Approval marks and symbols



Tridonic products comply with the requirements of 2004/108/EC and 2006/95/EC, and are entitled to bear the CE mark. EC declarations of conformity can be requested via the internet at [www.tridonic.com](http://www.tridonic.com), menu "Technical data".



RoHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment) summarises EU directive 2002/95/EC on the prohibition of certain substances in the manufacture and processing of electrical and electronic equipment and components.



The ENEC mark (European Norms Electrical Certification) is a European mark of conformity and confirms that the device on which the symbol is shown complies with all the requirements of the ENEC scheme. Test certificates can be requested via the Internet at [www.tridonic.com](http://www.tridonic.com), menu "Technical data".



National Safety approval marks, partly incl. other standards



VDE EMC approval mark



Protection class II device in which protection against electric shock is not based solely on the basic insulation but in which there are additional safety features such as double or enhanced insulation. It is independent of the protection measures of the fixed installation.



Reinforced insulation. The device is designed to be used in class II equipments and does not need any protection earth.



Mark for an independent gear. The gear must not be mounted inside the luminaire.



The device is suitable for installing on or in furniture which is made from materials with unknown flammability properties.



Pictogram for temperature-protected devices. The temperature shown is the maximum surface temperature in the event of a fault at rated ambient temperature.

## SELV

Safety Extra-Low-voltage

The latest technical information including all the mechanical and electrical details can be downloaded from the internet: at [www.tridonic.com](http://www.tridonic.com), menu "Technical data", submenu "Data sheets"





Short-circuit-proof safety converter or safety transformer / non-short-circuit-proof safety converter or safety transformer.



Non-short-circuit-proof transformer / non-short-circuit-proof energy-saving transformer.



Dimmable trailing-edge phase dimmer / dimmable leading-edge and trailing-edge phase dimmer.



ESD protection necessary



DALI is an acronym and stands for "Digital Addressable Lighting Interface" set out in the technical standard IEC 62386 that guarantees the exchangeability of dimmable ballasts. Under the auspices of the German Central Association of the Industry for Electric and Electronic Products (registered committee: ZVEI) the AG DALI (Activity Group DALI – an open group with leading manufacturers of control devices) was founded to establish this standard in the market. For more Information see page 389.



## Standards

EN 61347-1	IEC 61347-1	General and safety requirements for lamp control gear
EN 61347-2-1	IEC 61347-2-1	Particular requirements for starting devices
EN 61347-2-2	IEC 61347-2-2	Particular requirements for DC or AC supplied electronic step-down converters for filament lamps
EN 61347-2-3	IEC 61347-2-3	Particular requirements for AC supplied electronic ballasts for fluorescent lamps
EN 61347-2-7	IEC 61347-2-7	Particular requirements for DC supplied electronic ballasts for emergency lighting
EN 61347-2-8	IEC 61347-2-8	Particular requirements for ballasts for fluorescent lamps
EN 61347-2-9	IEC 61347-2-9	Particular requirements for ballasts for discharge lamps
EN 61347-2-11	IEC 61347-2-11	Particular requirements for electronic modules for luminaires
EN 61347-2-12	IEC 61347-2-12	Particular requirements for DC or AC supplied electronic ballasts for discharge lamps
EN 61347-2-13	IEC 61347-2-13	Particular requirements for electronic control gear for LED modules
EN 61558	IEC 61558	Safety of power transformers
EN 62031	IEC 62031	Safety specifications for LED modules
EN 60598-1	IEC 60598-1	General requirements for luminaires
EN 60598-2-1	IEC 60598-2-1	Particular requirements for fixed general purpose luminaires
EN 60598-2-22	IEC 60598-2-22	Particular requirements in respect of luminaires for emergency lighting
EN 62493	IEC 62493	Assessment of lighting equipment related to human exposure to electro-magnetic fields
EN 62471	IEC 62471	Photobiological safety of lamps and lamp systems
EN 55015	CISPR 15	Radio disturbances
EN 61547	IEC 61547	EMC immunity requirements
EN 61000-3-2	IEC 61000-3-2	Harmonic current emissions
EN 61000-3-3	IEC 61000-3-3	Voltage fluctuations and flicker in low-voltage supply systems
EN 60921	IEC 60921	Ballasts for tubular fluorescent lamps – performance requirements
EN 60923	IEC 60923	Ballasts for discharge lamps – performance requirements
EN 60925	IEC 60925	DC supplied electronic ballasts for tubular fluorescent lamps – performance requirements
EN 60927	IEC 60927	Starting devices – performance requirements
EN 60929	IEC 60929	AC supplied electronic ballasts for tubular fluorescent lamps – performance requirements
EN 61047	IEC 61047	DC or AC supplied electronic step-down converters for filament lamps – performance requirements
EN 62384	IEC 62384	DC or AC supplied electronic control gear for LED modules – performance requirements
EN 62386	IEC 62386	Digital addressable lighting interface
EN 50172		Requirements for emergency escape lighting systems
acc. to VDE 0108 / EN 50172		Suitable for emergency lighting installations
EN 62034	IEC 62034	Automatic test system for battery-powered emergency escape lighting
EN 60068-2-64 Fh	IEC 60068-2-64 Fh	Environmental testing – test Fh: Vibration, broad-band random (digital control)
EN 60068-2-27 Ea	IEC 60068-2-27 Ea	Environmental testing – test Ea and guidance: Shock
EN 60068-2-30 Db	IEC 60068-2-30 Db	Basic environmental testing procedures – test Db: Damp heat, cyclic (12+12-hour cycle)



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EC 58 C502K 240/50 090A191	22149260	9006210228501	132	EM 21/28/49-5 T5 BASIC	89899823	9006210239194	315
EC 58 LC501K 230/50 100A191	22148638	9006210173016	128	EM 33A BASIC	89818556	9006210161891	306
EC 65 B140 230/50 140A231	22175030	9006210236193	126	EM 33A MINI BASIC	89899951	9006210257419	313
EC 70 B502K 240/50 100A191D	22148772	9006210180373	132	EM 33B BASIC	89818655	9006210162010	306
EC 70 C501K 230/50 090A191D	22148762	9006210180915	128	EM 33C BASIC	89800000	9006210171883	306
EC 70 C502K 240/50 090A191D	22148773	9006210180342	132	EM 34 BASIC Ip-2	89800037	9006210349886	318
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EC 8 C102K 240/50 027A084	22148939	9006210204253	130	EM 34A BASIC	89818557	9006210161921	306
EC 80/85 C140 230/50 140A231	22175020	9006210235967	126	EM 34A MINI BASIC	89899950	9006210257389	313
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OMBS 50 PA503W 230/240/50 035A103T	22158567	9006210192345	210	PC 1/55 TCL PRO	22176169	9006210262970	24
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OMBS 50/35 A603W 230/240/50 045A113PL	22118832	9006210169699	206	PC 1/70 T8 PRO	22176171	9006210262994	22
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OMBS 70/50 A251D 230/50 055A091T	22148996	9006210208312	213	PC 1x14-3 T5 COMBO lp	89899875	9006210265582	335
OMBS 70/50 A503W 230/240/50 055A123T	22175085	9006210251080	208	PC 1x14-35 T5 PRO lp	22185147	9006210364940	18
OMBS 70/50 A603W 230/240/50 055A123T	22148603	9006210174013	206	PC 1x14-35 T5 TOP lp	22185157	9006210365541	33
OMBS 70/50 Z603W 230/240/50 045A113HL	22148581	9006210174846	206	PC 1x14-35 T5 TOP lp	28000023	9006210437132	33
OMBS 70/50 Z603W 230/240/50 045A113T	22158510	9006210191263	206	PC 1x16-33 HO DD COMBO	89899926	9006210285177	344
OMF 37/485 400/50 055A125T	22175055	9006210237190	225	PC 1x18 T8 PRO lp	22185213	9006210392684	20
OMF 60/485 400/50 055A125T	20568154	9006210048437	225	PC 1x18 T8 TEC	87500113	9006210398976	39
OMT 150 A222W 150 VA	20882035	9006210057071	286	PC 1x18 T8 TOP sl	22185222	9006210393131	35
OMT 210 A222W 210 VA	20882041	9006210057101	286	PC 1x18 TC TOP	28000073	9006210446509	36
OMT 300 A222W 300 VA	20882057	9006210057132	286	PC 1x18 TC TOP sr	28000077	9006210465159	37
Pack-NiCd 3C	89899676	9006210205519	379	PC 1x18 W BASIC	24138829	9006210220581	44
Pack-NiCd 3D	89899672	9006210205472	379	PC 1x18 W BASIC sl	24138832	9006210220673	45
Pack-NiCd 4C	89899677	9006210205526	379	PC 1x18-24 W BASIC sl	22176000	9006210226897	45
Pack-NiCd 4D	89899673	9006210205489	379	PC 1x18-3 TC COMBO	89899990	9006210281391	344
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PC 1x24 T5 PRO lp	22185149	9006210365060	18	PC 1x58 T8 TOP sl	22185224	9006210393230	35
PC 1x24 T5 TOP lp	22185159	9006210365664	33	PC 1x58-34 COMBO	89805270	9006210140476	332
PC 1x24 T5 TOP lp	28000025	9006210437309	33	PC 1x8 W BASIC sl	22176026	9006210233260	47
PC 1x24-4 T5 COMBO lp	89899879	9006210259994	335	PC 1x80 T5 PRO lp	22185209	9006210392448	18
PC 1x26 W BASIC	22176208	9006210274133	44	PC 1x80-6 T5 COMBO lp	89899891	9006210260266	335
PC 1x26 W BASIC sl	22176002	9006210226958	45	PC 2 x 58-34 COMBO	89805272	9006210141503	332
PC 1x26-3 TC COMBO	89899983	9006210278216	344	PC 2/14-21/24/39 T5 PRO-M lp	22176185	9006210264929	42
PC 1x26-4 TC COMBO	89899976	9006210274386	344	PC 2/14-35/49/54 T5 PRO-M lp	22176186	9006210264950	42
PC 1x26-42 TC TOP	28000075	9006210446646	36	PC 2/18/24 TCL PRO	22176069	9006210240138	24
PC 1x26-42 TC TOP sr	28000079	9006210465395	37	PC 2/30 T8 PRO	22176078	9006210244815	22
PC 1x26/32-5 TC COMBO	89899929	9006210273785	344	PC 2/35 T5 INDUSTRY	86459172	9120044924177	40
PC 1x26/32/42-6 TC COMBO	89899931	9006210278247	344	PC 2/36 T8 INDUSTRY	86458036	7612696120141	40
PC 1x28 T5 TEC	87500127		38	PC 2/36 TCL PRO	22176170	9006210262987	24
PC 1x28-33 HO DD COMBO	89899957	9006210272337	344	PC 2/40 TCL PRO	22176143	9006210254456	24
PC 1x28-33 LO DD COMBO	89899943	9006210278339	344	PC 2/49 T5 INDUSTRY	86458040	7612696124347	40
PC 1x28-33 LO E DD COMBO	89899980	9006210323831	350	PC 2/54 T5 INDUSTRY	86458042	7612696121919	40
PC 1x28-34 HO DD COMBO	89899958	9006210272368	344	PC 2/55 TCL PRO	22176233	9006210277684	24
PC 1x28-34 LO DD COMBO	89899955	9006210266107	344	PC 2/58 T8 INDUSTRY	86458038	7612696120127	40
PC 1x28-34 LO E DD COMBO	89800028	9006210336541	350	PC 2/70 T8 PRO	22176232	9006210277622	22
PC 1x35-6 T5 COMBO lp	89899885	9006210265551	335	PC 2/80 T5 INDUSTRY	86458044	7612696124316	40
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PC 1x36 T8 TOP sl	22185223	9006210393186	35	PC 2x14-28 T5 TOP lp	28000024	9006210437231	33
PC 1x36-33 COMBO	89805250	9006210141497	332	PC 2x14-3 T5 COMBO lp	89899876	9006210265612	335
PC 1x36-33 TC-L COMBO	89899920	9006210251233	341	PC 2x14-35 T5 PRO lp	22185148	9006210365008	18
PC 1x38-34 HO DD COMBO	89899933	9006210266909	344	PC 2x18 T8 PRO lp	22185216	9006210392837	20
PC 1x38-34 LO DD COMBO	89899981	9006210278186	344	PC 2x18 T8 TEC	87500114	9006210441375	39
PC 1x38-35 HO DD COMBO	89899975	9006210271750	344	PC 2x18 T8 TOP sl	22185225	9006210393285	35
PC 1x39 T5 PRO lp	22185151	9006210365183	18	PC 2x18 TC TOP	28000074	9006210446578	36
PC 1x39 T5 TOP lp	22185161	9006210365787	33	PC 2x18 TC TOP sr	28000078	9006210465210	37
PC 1x39 T5 TOP lp	28000027	9006210437446	33	PC 2x18-3 TC COMBO	89899982	9006210278278	344
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PC 1x4-13 W BASIC sl	24138834	9006210220734	45	PC 2x24 T5 PRO lp	22185150	9006210365121	18
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PC 1x49 T5 PRO lp	22185153	9006210365305	18	PC 2x24 T5 TOP lp	28000026	9006210437378	33
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PC 1x49 T5 TOP lp	28000029	9006210437583	33	PC 2x26 TC TOP	28000076	9006210446714	36
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PC 1x54 T5 PRO lp	22185155	9006210365428	18	PC 2x26-42 TC PRO	22176410	9006210345819	27
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PC 1x54 T5 TOP lp	28000031	9006210437729	33	PC 2x26-42 TC PRO sr+	22176414	9006210346052	29
PC 1x54-6 T5 COMBO lp	89899889	9006210259888	335	PC 2x26/32-5 TC COMBO	89899998	9006210284903	344
PC 1x55-35 TC-L COMBO	89899924	9006210251202	341	PC 2x26/32/42-6 TC COMBO	89899989	9006210281360	344
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PC 2x36 T8 TEC	87500116	9006210441481	39	PCA 1x18 TC EXCEL one4all y ll	22185130	9006210357058	87
PC 2x36 T8 TOP sl	22185226	9006210393339	35	PCA 1x18/24 TCL BASIC c y ll	22185253	9006210417691	103
PC 2x36-33 COMBO	89805268	9006210141251	332	PCA 1x18/24 TCL ECO c y ll	22185252	9006210402437	97
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PC 2x39 T5 TOP lp	22185162	9006210365848	33	PCA 1x21/39 T5 ECO lp y ll	22185101	9006210355344	89
PC 2x39 T5 TOP lp	28000028	9006210437514	33	PCA 1x21/39 T5 EXCEL one4all lp y ll	22185110	9006210355887	78
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PC 2x49-5 T5 COMBO lp	89899888	9006210265704	335	PCA 1x28 TC-DD BASIC y ll	22185256	9006210402550	103
PC 2x54 T5 PRO lp	22185156	9006210365480	18	PCA 1x28 TC-DD ECO y ll	22185255	9006210402499	97
PC 2x54 T5 TOP lp	22185166	9006210366081	33	PCA 1x28 TC-DD EXCEL one4all y ll	22185254	9006210402734	87
PC 2x54 T5 TOP lp	28000032	9006210437798	33	PCA 1x28/54 T5 ECO lp y ll	22185099	9006210355283	89
PC 2x54-6 T5 COMBO lp	89899890	9006210259918	335	PCA 1x28/54 T5 EXCEL one4all lp y ll	22185108	9006210355764	78
PC 2x55 TCL PRO lp	22185286	9006210427058	18	PCA 1x35 T5 BASIC lp y ll	22185080	9006210353524	99
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PC 3/4x14-33 T5 COMBO	89800002	9006210196923	332	PCA 1x54 T5 BASIC lp y ll	22185088	9006210354682	99
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PC 3/4x18-33 COMBO	89818236	9006210148663	332	PCA 1x55 T5c EXCEL one4all y ll	22185132	9006210357171	87
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PCA 1x18 T8 BASIC lp y ll	22185241	9006210401836	101	PCA 2x18 T8 ECO lp y ll	22185243	9006210401959	92
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PCA 2x80 T5 EXCEL one4all lp y II	22185107	9006210355702	78	PCI 50 outdoor DIM B011	86459336	9120044932479	169
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PCA 3x14/24 T5 EXCEL one4all lp y	22176209	9006210271712	80	PCI 50 PRO C021	86459308	9120044933278	159
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PCA 3x18 T8 ECO lp y	22185245	9006210402079	96	PCI 50 PRO C521 ST	86459309	9120044933247	160
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PCA 4x14/24 T5 EXCEL one4all lp y	22176210	9006210271729	80	PCI 60 outdoor FOX B011	86459155	9120044923910	168
PCA 4x14/24 T5 EXCITE lp	22176711	9006210429953	105	PCI 70 outdoor DIM B011	86459337	9120044932509	169
PCA 4x18 T8 ECO lp y	22185248	9006210402192	96	PCI 70 outdoor FOX B011	86458590	7612696134223	168
PCA 4x18 T8 EXCEL one4all lp y	22185250	9006210402314	86	PCI 70 PRO C021	86458607	7612696139778	159
PCA 4x18 T8 EXCITE lp	22185249	9006210402253	106	PCI 70 PRO C521 GST	86458907	7612696147438	161
PCI 0020 FOX B011	86458340	7612696130522	158	PCI 70 PRO C521 ST	86458610	7612696140644	160
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22149231	OGLIS 250 PC023W 230/240/50 040A094	9006210220437	217	22175202	ZRM 50/35 A201W	9006210258164	251
22149234	EC 15 C502K 240/50 050A151	9006210228426	132	22175203	ZRM 80/50 B201W	9006210258355	252
22149235	EC 18 TCD C102K 240/50 027A084	9006210227405	130	22175204	ZRM 125/70 B201W	9006210258324	252
22149241	EC 30 C502K 240/50 050A151	9006210227375	132	22176000	PC 1x18-24 W BASIC sl	9006210226897	45
22149260	EC 58 C502K 240/50 090A191	9006210228501	132	22176001	PC 1x14-21 W BASIC sl	9006210226927	45
22149284	EC 36-1 C501K 230/50 100A191 LOSE	9006210228310	128	22176002	PC 1x26 W BASIC sl	9006210226958	45
22149286	EC 70 LC501K 230/50 100A191D	9006210232300	128	22176026	PC 1x8 W BASIC sl	9006210233260	47
22149307	EC 09 C102K 240/50 027A084	9006210231471	130	22176068	PC 1/18/24 TCL PRO	9006210240107	24
22154332	DALI-PCD/S	9006210212456	410	22176069	PC 2/18/24 TCL PRO	9006210240138	24
22154333	DSI-PCD/S	9006210206165	445	22176072	TE VIPER 60 VA	9006210243641	264
22158504	TMBC 150 B551U 230 V	9006210191119	284	22176074	TE VIPER 105 VA	9006210243702	264
22158505	TMBC 210 B551U 230 V	9006210191140	284	22176077	PC 1/30 T8 PRO	9006210242439	22
22158510	OMBS 70/50 Z603W 230/240/50 045A113T	9006210191263	206	22176078	PC 2/30 T8 PRO	9006210244815	22
22158552	OMB 125/80 A603K 230/240/50 055A123HL	9006210191959	202	22176141	PC 1/36 TCL PRO	9006210255873	24
22158565	OMBIS 150 PB503W 230/240/50 085A153HL	9006210192314	210	22176142	PC 1/40 TCL PRO	9006210255880	24
22158566	OMBIS 100 PA503W 230/240/50 055A123HL	9006210223506	210	22176143	PC 2/40 TCL PRO	9006210254456	24
22158567	OMBS 50 PA503W 230/240/50 035A103T	9006210192345	210	22176169	PC 1/55 TCL PRO	9006210262970	24
22158576	OMBI 70PA503W 230/240/50 045A113HL	9006210192581	210	22176170	PC 2/36 TCL PRO	9006210262987	24
22175007	OGLI 2000 W PC026K 380/400/50 210B268HL	9006210231679	220	22176171	PC 1/70 T8 PRO	9006210262994	22
22175009	OGLI 2000 W PC027K 360-400/50 210B268VGH	9006210232492	220	22176182	PC 1/14-35/24/39 T5 PRO-M Ip	9006210264837	42
22175010	EC 58 C141K 230/50 090A155	9006210232676	126	22176183	PC 1/14-35/49/54 T5 PRO-M Ip	9006210264868	42
22175020	EC 80/85 C140 230/50 140A231	9006210235967	126	22176184	PC 1/14-35/49/80 T5 PRO-M Ip	9006210264899	42
22175029	OMBIS 250 Z505K 220/50 120A188T	9006210234298	208	22176185	PC 2/14-21/24/39 T5 PRO-M Ip	9006210264929	42
22175030	EC 65 B140 230/50 140A231	9006210236193	126	22176186	PC 2/14-35/49/54 T5 PRO-M Ip	9006210264950	42
22175043	ECM 80 A140 230/50 140A231	9006210235042	221	22176208	PC 1x26 W BASIC	9006210274133	44
22175046	ECF 8/485 A201B 230/240/50 ZIMP 87	9006210236551	223	22176209	PCA 3x14/24 T5 EXCEL one4all Ip y	9006210271712	80
22175047	ECF 12/485 A201B 230/240/50 ZIMP 87	9006210241487	223	22176210	PCA 4x14/24 T5 EXCEL one4all Ip y	9006210271729	80
22175048	ECF 32/485 A201B 230/240/50 ZIMP 113	9006210241517	223	22176211	PCA 3x14/24 T5 ECO Ip y	9006210271736	91
22175055	OMF 37/485 400/50 055A125T	9006210237190	225	22176212	PCA 4x14/24 T5 ECO Ip y	9006210271743	91
22175058	EC 36 C501K 230/50 050A151	9006210241050	128	22176231	PC 3/36 T8 PRO	9006210277592	22
22175069	EC 18 C501K 230/50 050A151	9006210242620	128	22176232	PC 2/70 T8 PRO	9006210277622	22
22175070	EC 18 C502K 240/50 050A151	9006210242651	132	22176233	PC 2/55 TCL PRO	9006210277684	24
22175071	EC 36 C502K 240/50 050A151	9006210242781	132	22176235	PCA 1x58 T8 EXCEL one4all Ip y	9006210281421	84
22175072	OMBIS 250 Z504K 220-240/50 120A188T	9006210242972	208	22176237	PCA 2x58 T8 EXCEL one4all Ip y	9006210281483	84
22175074	ECF 10/485 A201B 230/240/50 ZIMP 87	9006210244303	223	22176239	PCA 1x36 T8 EXCEL one4all Ip y	9006210282497	84
22175084	OMBS 50 A504W 220-240/50 035A103T	9006210251059	208	22176240	PCA 2x36 T8 EXCEL one4all Ip y	9006210282527	84
22175085	OMBS 70/50 A503W 230/240/50 055A123T	9006210251080	208	22176354	PCA 1x36 T8 ECO Ip y	9006210333380	94
22175086	OMBS 10070 A503W 230/240/50 065A133T	9006210251110	208	22176355	PCA 2x36 T8 ECO Ip y	9006210333410	94
22175087	OMBS 150/100 A503W 230/240/50 105A173T	9006210251141	208	22176356	PCA 1x58 T8 ECO Ip y	9006210333441	94
22175093	OMB 125 A501K 230/50 045A113T	9006210258720	203	22176357	PCA 2x58 T8 ECO Ip y	9006210333472	94
22175106	EC 2x18 OC502K 240/50 040A151	9006210251196	132	22176405	PC 1/2x9-13 TC PRO	9006210345512	27
22175112	EC 2x18 OC501K 230/50 040A151	9006210251011	128	22176406	PC 1/2x11-17 TC PRO	9006210345574	27
22175113	OMB 250 A500K 220/50 085A153T	9006210258980	203	22176407	PC 1/2x18 TC PRO	9006210345635	27
22175116	OMBIS 250 Z502K 240/50 120A188T	9006210259048	208	22176408	PC 1/2x26-42 TC PRO	9006210345697	27
22175125	EC 15 OC501K 230/50 040A151	9006210261591	128	22176409	PC 1x57/70 TC PRO	9006210345758	27
22175139	OMBIS 150 Z501K 230/50 065A133T	9006210276472	208	22176410	PC 2x26-42 TC PRO	9006210345819	27



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22176494	TE-0060 BASIC 101 fly lead	9006210384931	265	22185121	PCA 2x26/32/42 TC ECO y II	9006210356518	97
22176495	TE-0060 BASIC 111 screw terminal	9006210384962	265	22185122	PCA 1x18 TC ECO y II	9006210356570	97
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22176711	PCA 4x14/24 T5 EXCITE lp	9006210429953	105	22185124	PCA 1x55 T5c ECO y II	9006210356693	97
22179254	EC 18 TCD LB112K 240/50 050A110 IDC	9006210231433	132	22185126	PCA 1x11/13 TC ECO y II	9006210356815	97
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22185084	PCA 1x80 T5 BASIC lp y II	9006210354446	99	22185147	PC 1x14-35 T5 PRO lp	9006210364940	18
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24031071	TMDC 70 B001W 230 V	9006210218335	282	28000035	PCA 1x36 T8 ECO lp y ll	9006210439808	92
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24033450	DALI GC	9006210107714	392	28000038	PCA 2x36 T8 EXCEL one4all lp y ll	9006210440446	82
24034263	DALI SC	9006210134390	393	28000039	PCA 2x36 T8 ECO lp y ll	9006210440514	92
24034323	DALI PS1	9006210147925	401	28000040	PCA 2x58 T8 EXCEL one4all lp y ll	9006210440583	82
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9006210200910	EM 35 ST	89899681	322	9006210209494	Accu-NiCd C 4C	89899694	376
9006210200941	EM 15 ST	89899684	322	9006210209517	Accu-NiCd C 5B	89899696	376
9006210201092	EM 36 ST	89899682	322	9006210209531	Accu-NiCd C 5C	89899697	376
9006210201122	EM 16 ST	89899685	322	9006210209692	Accu-NiMH C 5B	89899704	380
9006210201245	LED EM bi-colour	89899720	324	9006210212074	OMBIS 250 Z604W 220-240/50 120A188T	22149045	206
9006210202372	OMBIS 150 PA503W 230/240/50 075A143HL	22149207	210	9006210212456	DALI-PCD/S	22154332	410
9006210204253	EC 8 C102K 240/50 027A084	22148939	130	9006210213408	OGLS 400 C203D 230-250/50 060A114	22149038	217
9006210204611	EC 18 LC111K 230/50 054A110	22148943	126	9006210213934	PC Ballast box, upper section	24138824	49
9006210204772	Accu-NiCd C 4A	89899692	376	9006210213941	PC Ballast box, lower section	24138825	49
9006210204796	Accu-NiCd C 5A	89899695	376	9006210215082	KTR 50 230 V	86438472	280
9006210204819	Accu-NiCd C 6A	89899698	376	9006210215112	KTR 105 230 V	86438480	280
9006210204833	Accu-NiCd C 6C	89899699	376	9006210215594	TMDC 50 B001K 230 V	86451534	281
9006210204857	Accu-NiMH C 4A	89899700	380	9006210215655	TMDC 105 B001K 230 V	86451540	281
9006210204871	Accu-NiMH C 5A	89899703	380	9006210216461	TMDD 50 A701W 230 V	86453803	285
9006210204895	Accu-NiMH C 6A	89899706	380	9006210216706	ETAWATT 18 NG301 IND 230V/50	86454136	134
9006210204918	Accu-NiMH C 6C	89899707	380	9006210216737	ETAWATT 30 NG301 IND 230V/50	86454142	134
9006210205472	Pack-NiCd 3D	89899672	379	9006210216768	ETAWATT 36 NG301 IND 230V/50	86454158	134
9006210205489	Pack-NiCd 4D	89899673	379	9006210216799	ETAWATT 58 NG301 IND 230V/50	86454161	134
9006210205502	Pack-NiCd 6D	89899675	379	9006210217819	TMDD 105 A601W 230 V	24030679	285
9006210205519	Pack-NiCd 3C	89899676	379	9006210218243	TMDC 20 B001W 230 V	24031030	282
9006210205526	Pack-NiCd 4C	89899677	379	9006210218304	TMDC 50 B001W 230 V	24031052	282
9006210205540	Pack-NiCd 6C	89899679	379	9006210218335	TMDC 70 B001W 230 V	24031071	282
9006210205779	EC 8 C101K 230/50 027A084	22148945	126	9006210218366	TMDC 105 B001W 230 V	24031093	282
9006210205809	EC 09 C101K 230/50 027A084	22148946	126	9006210218427	TMDD 60 A601W 230 V	24030650	285
9006210206165	DSI-PCD/S	22154333	445	9006210220031	ECF 20/485 A201B 230/240/50 ZIMP 87	22149227	223
9006210206202	LED EM bi-colour, high brightness	89899753	324	9006210220253	IP 44 KIT SHORT	24138842	48
9006210206233	LED EM green, ultra high brightness	89899756	307	9006210220420	OMBIS 250 PZ 503W 230/240/50 120A188HL	22149230	210
9006210206271	EM 14 HO ST	89899686	322	9006210220437	OGLIS 250 PC023W 230/240/50 040A094	22149231	217
9006210206332	EM 15 HO ST	89899687	322	9006210220581	PC 1x18 W BASIC	24138829	44
9006210206493	EM 16 HO ST	89899688	322	9006210220611	PC 1x5-16 W BASIC	24138830	44
9006210207353	OGLIS 250 C203D 230-250/50 040A094	22149035	217	9006210220642	PC 1x4-13 W BASIC	24138831	44
9006210207735	OMB 125/80 A251B 230/50 055A091T	22148960	205	9006210220673	PC 1x18 W BASIC sl	24138832	45
9006210207797	OMB 80/50 A201B 230/50 035A097T	22148967	204	9006210220703	PC 1x5-16 W BASIC sl	24138833	45
9006210208046	OMB 80/50 A211B 230/50 035A117T	22148968	204	9006210220734	PC 1x4-13 W BASIC sl	24138834	45
9006210208107	OMBS 150/100 A201D 230/50 105A167T	22148989	211	9006210221793	OGLI 2000C027K 360-415/50 210B268VGH	22148887	220
9006210208138	OMBS 150/100 A251D 230/50 105A141T	22148990	213	9006210223506	OMBIS 100 PA503W 230/240/50 055A123HL	22158566	210
9006210208190	OMBS 50/35 A201D 230/50 045A107T	22148992	211	9006210224503	DALI SC-A	24138906	393
9006210208220	OMBS 50/35 A251D 230/50 045A081T	22148993	213	9006210225159	DALI GC-A	24138907	392
9006210208251	OMBS 70/50 A201D 230/50 055A117T	22148994	211	9006210226897	PC 1x18-24 W BASIC sl	22176000	45
9006210208312	OMBS 70/50 A251D 230/50 055A091T	22148996	213	9006210226927	PC 1x14-21 W BASIC sl	22176001	45
9006210208343	OMBIS 100 A203D 230-250/50 055A117T	22148971	211	9006210226958	PC 1x26 W BASIC sl	22176002	45
9006210208374	OMBIS 150 A204D 220-240/50 075A137T	22148972	211	9006210227375	EC 30 C502K 240/50 050A151	22149241	132
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9006210228501	EC 58 C502K 240/50 090A191	22149260	132	9006210249650	EM powerLED 2 W BASIC	89899859	354
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9006210231679	OGLI 2000 W PC026K 380/400/50 210B268HL	22175007	220	9006210249773	EM powerLED 1 W BASIC	89899865	354
9006210231792	Accu-NiCd C 3A	89899743	376	9006210249803	EM powerLED 1 W ST	89899867	357
9006210232300	EC 70 LC501K 230/50 100A191D	22149286	128	9006210249865	EM powerLED 2 W BASIC	89899866	354
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9006210233260	PC 1x8 W BASIC sl	22176026	47	9006210251011	EC 2x18 OC501K 230/50 040A151	22175112	128
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9006210242170	Accu-NiMH 4Ah C 6A	89899852	380	9006210257419	EM 33A MINI BASIC	89899951	313
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9006210244273	EM 13E BASIC	89899864	306	9006210259048	OMBIS 250 Z502K 240/50 120A188T	22175116	208
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9006210244815	PC 2/30 T8 PRO	22176078	22	9006210259994	PC 1x24-4 T5 COMBO lp	89899879	335
9006210247298	Accu-NiMH C 3A	89899744	380	9006210260020	PC 2x24-4 T5 COMBO lp	89899880	335
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9006210265551	PC 1x35-6 T5 COMBO lp	89899885	335	9006210333380	PCA 1x36 T8 ECO lp y	22176354	94
9006210265582	PC 1x14-3 T5 COMBO lp	89899875	335	9006210333410	PCA 2x36 T8 ECO lp y	22176355	94
9006210265612	PC 2x14-3 T5 COMBO lp	89899876	335	9006210333441	PCA 1x58 T8 ECO lp y	22176356	94
9006210265643	PC 1x21/28-5 T5 COMBO lp	89899881	335	9006210333472	PCA 2x58 T8 ECO lp y	22176357	94
9006210265674	PC 2x21/28-5 T5 COMBO lp	89899882	335	9006210336541	PC 1x28-34 LO E DD COMBO	89800028	350
9006210265704	PC 2x49-5 T5 COMBO lp	89899888	335	9006210337197	EM-AP 003	89600960	371
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9006210271743	PCA 4x14/24 T5 ECO lp y	22176212	91	9006210337616	ZRM 2.5-ES/CT	87500086	240
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9006210278186	PC 1x38-34 LO DD COMBO	89899981	344	9006210341019	EM powerLED 2 W PRO EZ-3	89800030	360
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9006210350073	EM 36 BASIC lp-2	89800039	318	9006210356570	PCA 1x18 TC ECO y ll	22185122	97
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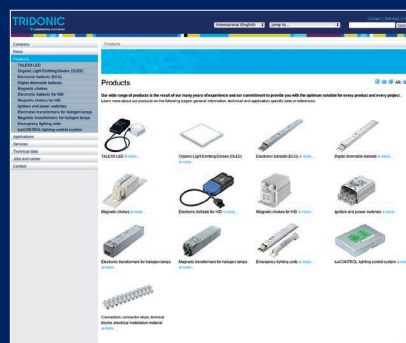
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