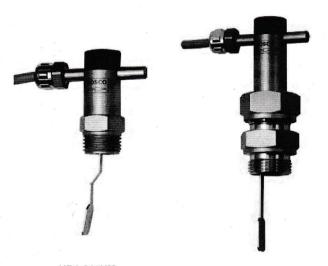
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# **Sensors and Instrumentation**

# **Product Information**

# Flow switch **UR1-...HM/HK**



UR1-015HM UR1-032HM

- Highly reproducible
- Low pressure loss
- Hermetic separation between electrical and hydraulic component
- Stress-fixing of the switching unit by means of plastic head

## **Characteristics**

The devices function via the principle of a spring-supported paddle, and the magnetic triggering of a reed switch.

#### **Technical data**

Switch	Reed switch		
Nominal width	DN 3280		
Process connection	brass / stainless steel - Screw-in thread G 1 <sup>1</sup> / <sub>4</sub> G 1 <sup>1</sup> / <sub>2</sub> or G2"G3"		
Switching range	23118 l/min	For details see	
Q <sub>max</sub> .	up to 600 I/min	table "Ranges"	
Hysteresis	Depending on the switching value, minimum ±0.7 l/min		
Tolerance	±15 % of full scale value		
Pressure resistance	PN 25 bar		
Medium temperature	-20+110 °C		
Ambient temperature	-20+70 °C		
Media	Water, oils (gases and aggressive media available on request)		

Wiring	Wiring 0.225	
	normally opened or	'normally close
	brown blue (white)	brown blue (white)
Switching voltage	230 V AC	
Switching current	1 A	
Switch performance	50 VA	
Cable length	1.5 m	
Ingress protection	IP 65	8
Protection class	(1PE connection)	
Materials medium-contact	Brass construction: CW614N , 1.4301, 1.4571, 1.4310, Hard ferrite, NBR	Stainless steel construction: 1.4305, 1.4571, 1.4301, 1.4310, Hard ferrite, Viton
Non-medium- contact materials	POM	* .% *** .
Weight	Total Control of the Control of Management of the Control of the C	.18 kg .38 kg
Installation location	unit not recommend installation positions	nwards flow; switching ed underneath; other are possible; the affects the switching

#### Ranges

The adjustment range is suitable for horizontally decreasing flows. Measured in DIN 2448 tube with normal wall thickness.

Types	DN	Adjustment range I/min H <sub>2</sub> O	<b>Q</b> <sub>max.</sub> recommended
UR1-015HM	DN 32	23 - 30	100
	DN 40	33 - 44	150
UR1-032HM	DN 50	38 - 48	200
	DN 65	60 - 84	400
	DN 80	81 - 118	600
UR1-015HK	DN 32	23 - 30	100
	DN 40	33 - 44	150
UR1-032HK	DN 50	38 - 48	200
	DN 65	60 - 84	400
	DN 80	81 - 118	600

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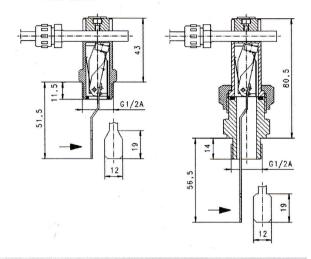
# **Sensors and Instrumentation**

# **Product Information**

# Dimensions

UR1-015H.

UR1-032H.



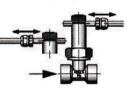
# Handling and operation

#### Note

- Include straight calming section of 5 x DN in inlet and outlet
- Include a filter if the media are dirty (use magnetic filter for ferritic components).
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switched on, a load must be connected in series.
- The electrical details apply to ohmic loads. Capacitive, inductive and lamp loads must be operated using a protective circuit.

# Adjustment

UR1 - loosen bolts, push the switching current tube into the desired position. Retighten the bolts. Normally closed or normally open Normally closed



#### **Ordering code**

1. 2. 3. 4. UR1-

#### O=Option

1.	Nominal widths		
	015	DN 3240	
	032	DN 5080	
2.	Process connection		
	Н	Screw-in thread	
3.	Connection material		
	М	Brass	
	K	stainless steel	
4.	Switching unit options		
	A	O For switching unit ATEX A-U1.1 The switching head is ordered in addition.	

#### **Options**

- Switching ranges for oil or gas
- Soldered copper fitting
- Special values
- Adhesive PVC fitting

#### **Ordering information**

- Specify direction of flow, medium, and switching range.
- For oils, state viscosity, temperature and designation (e.g. ISO VG 68) (enquire about range).
- For gases, state pressure (relative or absolute), temperature and medium (e.g. air) (enquire about range).