Ultra Compact Code Switch

MR8C Series





Outline

MR8C is an ultra compact rotary code switch with resin enclosure designed especially for – but not limited to - usage in devices with limited space for switch units inside.

Features

- 8mm square compact (8.0x8.0 mm)
- Two different step angles; (22.5°,30)
- Gold plated contacts
- Monolithic sealed structure of the terminals to prevent entry of a soldering flux
- RoHS compliant
- Dripproofed model available

Specifications

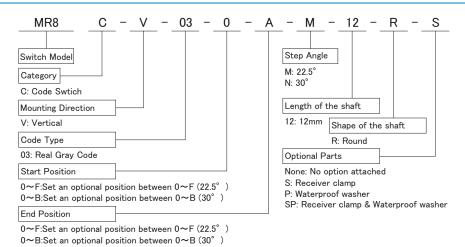
Operating t	temperature	-20°C ~ +70°C -4F ~ 158F	Keep the body					
Storage temperature		$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ $-40\text{F} \sim 158\text{F}$	unfrozen					
	Rotational Torque	0.02±0.01N·m						
	Terminal Strength	5N (of static load applied to the tip of the terminal once and in any direction)						
Mechanical	Rotation Stopper Strength	0.4N·m						
Specification	Panel Nut Tightening Torque	0.6N·m						
	Heat Resistance of Solder	350℃ ±10℃ , 3±1 sec.						
	Water Resistance	Water resistant thr panel (1m deep in	rough the mounted the water for 2h)					
Electrical Specification	Contact Capacity	0.2VA (AC&DC)						
	Maximum Voltage	15V (AC&DC)						
	Working Electric Current	0.1mA ~ 20mA (AC&DC)						
	Contact Resistance	200mΩ max.						

	Insulation	100MΩminimum (100VDC 1min.): Between terminals					
Electrical	Resistance	500MΩminimum (500VDC 1min.): Between Terminals and Ground					
Specification	Withstanding Voltage	100VAC 1min.: Between terminals					
		500VAC 1min.: Between terminals and ground					
Weight		3.5g					
Dura	ability	30,000 strokes (Rotational Torque: ±50% the initial value, Contact Resistance: Not more than 1Ω, Insulation Resistance: After 1min 100VDC electrification)					
Humidity Proof		Temperature : $+40 \pm 2^{\circ}$ C Relative Humidity : $90 \sim 95\%$ (Duration : $48 \pm 2h$)					

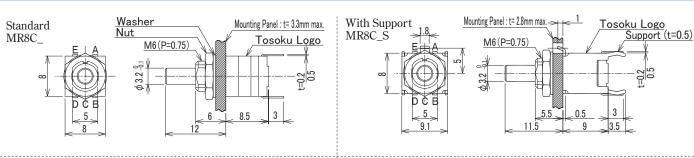
Warranty

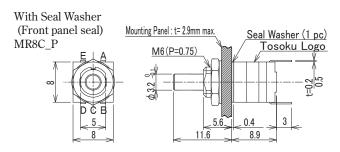
• 1 year from the date of shipment

Part Number Designation



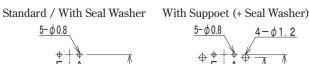
Dimensions (mm)

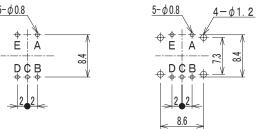




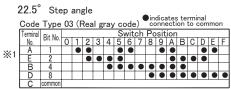
With Support & Seal Washer (Front panel seal) Seal Washer (2 pcs) Mounting Panel : t= 2mm max MR8C_SP Tosoku Logo Support (t=0.5) M6(P=0.75) XUse 2 seal washers

PWB Mounting Hole Dimensions (mm)





Code table

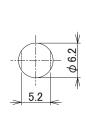


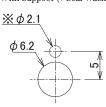
		Step												
	Code 1	ype 03	(R	eal	gra	у с	ode						nal comi	mon
	Terminal	Bit No.	Switch Position											
	No.	DIL IVO.	0	1	2	3	4	5	6	7	8	9	Α	В
※ 1	Е	1		•	•			•	•			•	•	
жı	Α	2			•	•	•	•					•	•
	В	4					•	•		•	•	•	•	•
	D	8									•	•	•	•
	С	common												
	Code 7	Гуре 01	(R	leal	bin								inal com	mor
	Terminal	Bit No.	Switch Position											
	No.		0	1	2	3	4	5	6	7	8	9	Α	В
	D	1		•		•		•		•		•		•
	В	2			•	•			•	•			•	•
	E	4					•	•	•	•				
	Α	8												
	A	0									_	_	•	•

Attention: Terminal A and E of $30^{\circ}\,$ is reverse to $22.5^{\circ}\,$.

Mounting Hole Dimension (mm)

Standard / With Seal Washer With Suppoet (+ Seal Washer)





With seal washer, keep the hole closed.