

# Ultra Compact Rotary Switch



# MR8A Series



## Outline

MR8A is our tiniest rotary switch designed for compact devices, used for many different equipments which has very limited space inside.

## Features

- 8mm square compact (8.0x8.0 mm)
- Gold plated contacts
- Monolithic sealed structure of the terminals to prevent entry of a soldering flux
- RoHS compliant
- Waterproofed model available

## Specifications

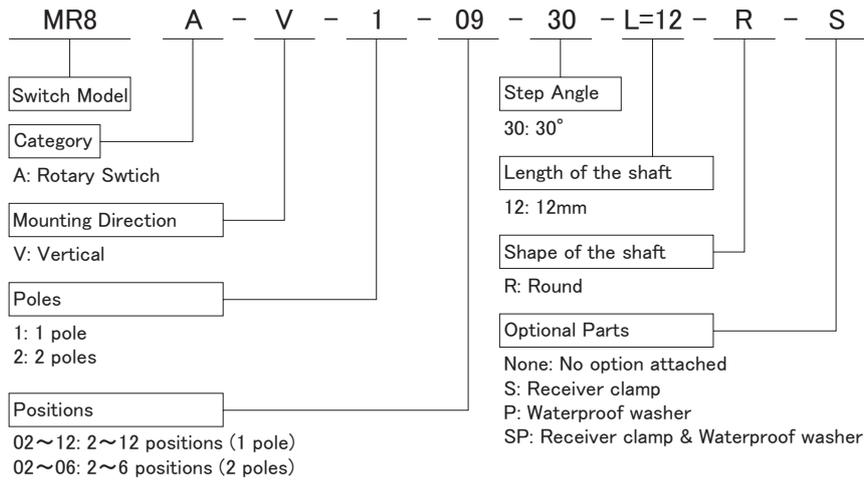
Operating temperature		-20°C ~ +70°C -4F ~ 158F	Keep the body unfrozen
Storage temperature		-40°C ~ +70°C -40F ~ 158F	
Mechanical Specification	Rotational Torque	0.02±0.01N·m	
	Terminal Strength	3N (of static load applied to the tip of the terminal once and in any direction)	
	Rotation Stopper Strength	0.4N·m	
	Panel Nut Tightening Torque	0.8N·m	
	Heat Resistance of Solder	300°C ±10°C , 3±1 sec.	
	Water Resistance	Water resistant through the mounted panel (2m deep in the water for 2h)	
Electrical Specification	Contact Capacity	0.4VA (AC&DC)	
	Maximum Voltage	25V (AC&DC)	
	Working Electric Current	0.1mA ~ 50mA (AC&DC)	
	Contact Resistance	80mΩ max.	

Electrical Specification	Insulation Resistance	500MΩmin. (250VDC): Between terminals		
		1000MΩmin. (500VDC): Between Terminals and Ground		
	Withstanding Voltage	300VAC 1min.: Between terminals		
		300VAC 1min.: Between terminals and ground		
Insulation Resistance		DC100V (1min later)	terminal – terminal	100MΩ ≤
		DC500V (1minLater)	terminal – ground	500MΩ ≤
Weight		5.5g		
Durability		50,000 strokes (Rotational Torque: ±20% the initial value, Contact Resistance: Not more than 100mΩ, Insulation Resistance: After 1min 250VDC electrification)		
Humidity Proof		Temperature : +40 ± 2°C Relative Humidity : 90 ~ 95% (Duration : 48 ± 2h)		

## Warranty

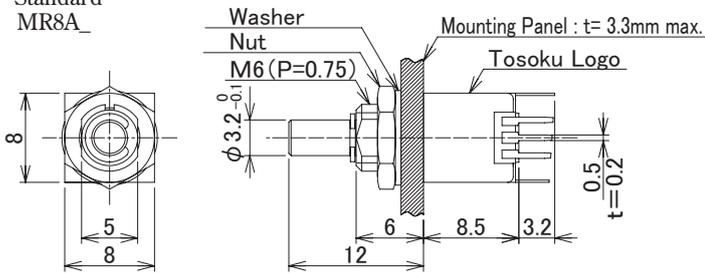
- 1 year from the date of shipment.

# Part Number Designation

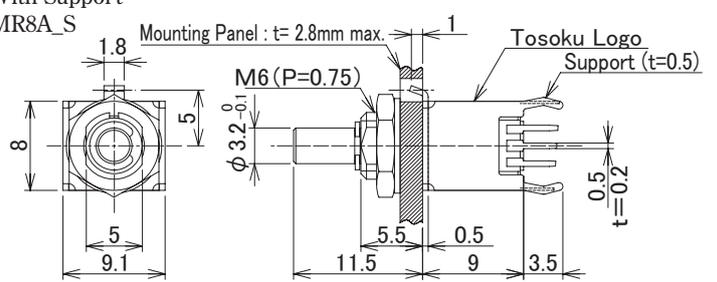


## Dimensions (mm)

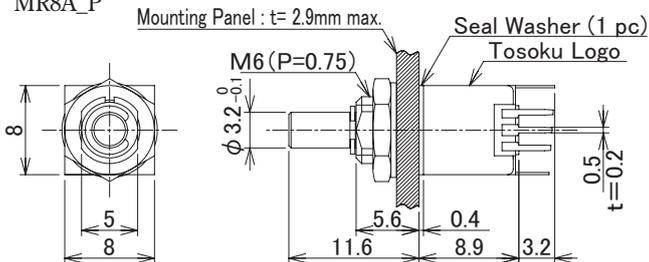
Standard  
MR8A\_



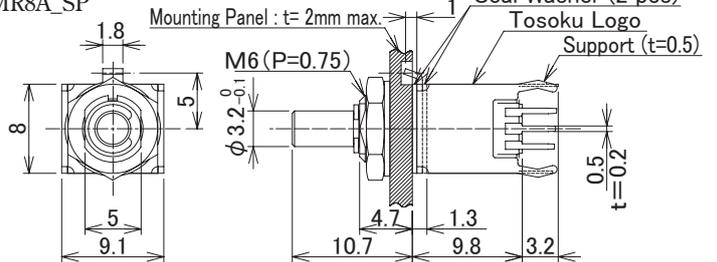
With Support  
MR8A\_S



With Seal Washer (Front panel seal)  
MR8A\_P



With Support & Seal Washer (Front panel seal)  
MR8A\_SP



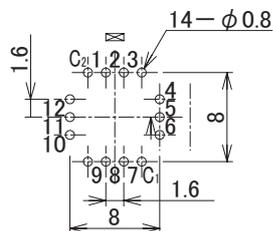
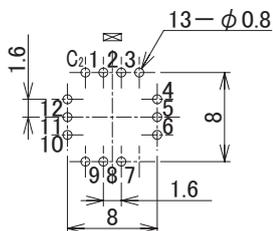
※Use 2 seal washers

### PWB Mounting Hole Dimensions (mm)

Standard / With Seal Washer

Seal Washer (2 pcs)

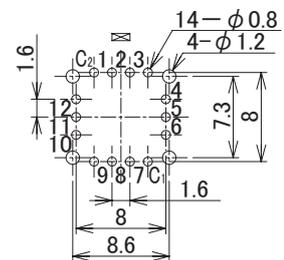
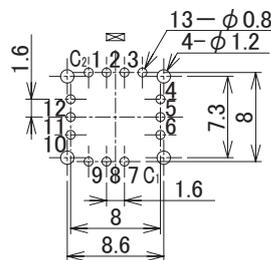
※Use 2 seal washers



With Support (& Seal Washer)

Seal Washer (2 pcs)

※Use 2 seal washers

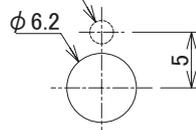
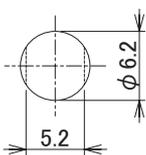


### Mounting Hole Dimension (mm)

Standard / With Seal Washer

With Support (& Seal Washer)

※φ2.1



With seal washer,  
keep the hole closed.

### Accessories

Nut

Washer

Seal Washer (1 pc)

