MR(36°Step)

Miniature Rotary Switches

RoHS Compliant



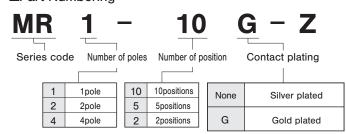
■ Features -

- 1. Diallyl phthalate resin (UL94V-0) which has excellent resistance to arc and heat, and superb insulation quality is employed.
- The terminals are molded in to ensure the permanent seal structure that completely prevents flux entry through the terminals.
- 3. Adoption of the wiping mechanism for the contacting area to ensure contacting stability and reliability.
- 4. The variable stopper is provided to allow free selection of the desired number of positions (excluding MR4-2 type).

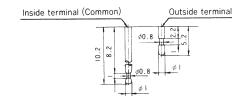
■ Specifications

Contact plating		Silver plated	Gold plated		
Rating	Max.	500 mA 125 VAC			
	Min.	10 mA 5 VAC/DC	5 mA 6 VDC		
Initial contact resistance		10 mΩ max.(1A 2~4VDC)	20 mΩ m ax. (1.5 mA 200μVAC)		
Dielectric strength		1,000 VAC 1minute			
Insulation resistance		100 MΩ min. (500 V			
Electrical life		10,000 cycles			
Operating force		9.8 N•cm max.			
Stopper strength		19.6 N•cm			
Operating temperature range		−20~+85°C			
Storage temperature range		-40∼+85°C			

■Part Numbering



■ Terminal Styles -



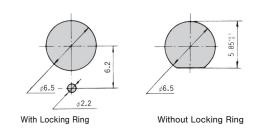
■ Standard Accessories

《Supplied with switch》

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Part name	Hex Nut	Lockwasher	Locking Ring	Stopper
Part No.	140008010241	140008030051	140008020066	140000600357
Dimensions	1/4"-40 THD	6.6 t=0.5	6.5	t=0.6
Plating	Nickel plated	Zinc plated	Zinc ı	olated

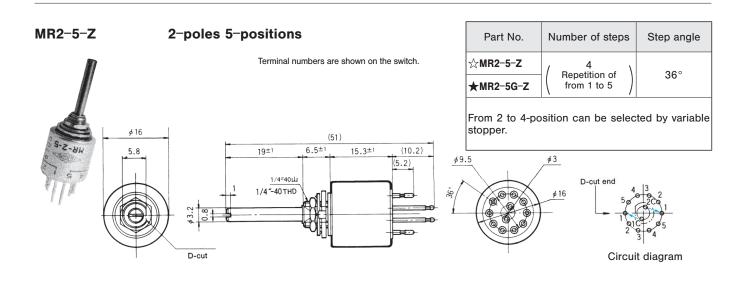
■ Panel Cut-Out Dimensions

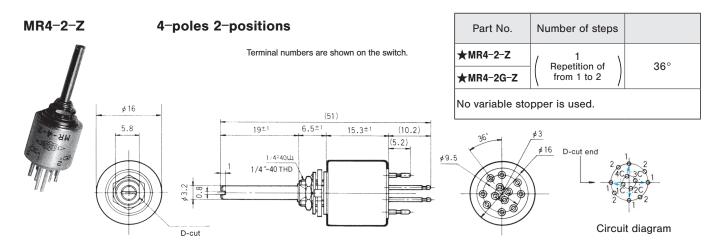
Panel thickness: 2 mm max.



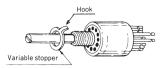
MR1-10-Z 1-pole 10-positions Part No. Number of steps Step angle Terminal numbers are shown on the switch. ☆MR1-10-Z 36° Repetition of ★MR1-10G-Z from 1 to 10 From 2 to 9-position can be selected by variable stopper. (51) 6.5±1 19±1 15.3±1 (10.2)(5.2) ø9.5 1/4~40山 D-cut end 1/4~-40THD Circuit diagram D-cut

**Two Common terminals (1C) are internally short-circuited. Select either one depending on wiring arrangements.

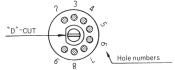




■ How to Use Variable Stopper



 The required number of positions can be obtained by fully turning the shaft in the counter-clockwise direction and inserting the stopper hook into the select hole of the desired contact number.



[Example]

Select Hole No. 5 to set 5 positions with MR1-10-Z. Select Hole No. 3 to set 3 positions with MR2-5-Z.

Do not use the variable stopper when all contacts are used.

■ Optional Accessories

《Sold separately》

					(00:a 00pa:a:0:5)	
Part Name		Knob				
		FB type		FN type		
Dimensions		Indicator Line		13 2-MAXQ.7 1 120 120 120 120 120 120 120 120 120 1		
Part No.		140000050598	140000051012	140000050956	140000050601	
Color	Body	Silver	Black	Silver	Black	
Color	Indicator Line	Black	White	Black	White	
Body Material		Aluminium		Aluminium		

●For the hexagon wrench for FB/FN types, choose the M4 wrench (2mm) available on the market.

■Handling Precautions -

1. Soldering Specifications —

(1)Manual Soldering

Device: Soldering iron 360°C, Max.; 3 seconds, Max.

(2) Auto Soldering

Device: Jet wave type or dip type 275°C , Max.; 6 seconds, Max.

- Pre-heating should be done at temperatures from 80 to 120°C and within 120 seconds
- (3)When soldering two or more terminals to the common land, use the solder resist to solder them independently.

2. Flux Cleaning -

(1)For the solvent, use the fluorine-based or alcohol-based solvent.

Solvent: Fluorine or Alcohol type

(2)Do not use the ultrasonic cleaning system.