MR(36° Step)

Miniature Rotary Switches

RoHS Compliant



Features -

- 1. Diallyl phthalate resin (UL94V-O) which has excellent resistance to arc and heat, and superb insulation quality is employed.
- 2. 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.	500mA 125VAC			
	Min.	10mA 5VAC/DC	5mA 6VDC		
Initial contact resistance		10mΩ max.(1A 2~4VDC)	$20m\Omega$ max. $(1.5mA 200\mu$ VAC)		
Dielectric strength		1,000VAC 1minute			
Insulation resistance		100MΩ min.	(500VDC)		
Electrical life		10,000 cycles			
Operating force		9.8N•cm max.			
Stopper strength		19.6N•cm			
Operating temperature range		−20~+85°C			
Storage temperature range		−40~+85°C			

Part Numbering 10 G Series code Number of poles Number of position Contact plating 10 1pole 10position None Silver plated

G

Gold plated

Terminal Styles

《Supplied with switch》



Standard Accessories

2poles

3poles

4poles

5

3

2

5position

3position

2position

1

2

3

4

Part name	Hex Nut	Lockwasher	Locking Ring	stopper
Part No.	140008010241	140008030051	140008020066	140000600357
Dimensions	1/4 ⁴⁰ THD			
Plating	Nickel plated	Zinc plated	Zinc	olated

Panel Cut-Out Dimensions Panel thickness : 2 mm max.







A wide variety of optional accessories are available. Specify the part number from Optional Accessories Table on page 542. •For Soldering Specifications and Flux Cleaning, see page 547.



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







	Part No.	Number of steps	Step angle	
	☆MR3-3-Z ★MR3-3G-Z	$\left(\begin{array}{c} 2\\ \text{Repetition of}\\ \text{from 1 to 3} \end{array}\right)$	36°	
2-position can be selected by variable stopper.				





Circuit diagram



The circuit diagrams show the switches as viewed from the terminal side with the shaft fully turned in the counter-clockwise direction.

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



[Example] Select Hole No. 5 to set 5 pos

Select Hole No. 5 to set 5 positions with MR1-10-Z. Select Hole No. 3 to set 3 positions with MR2-5-Z. Select Hole No. 2 to set 2 positions with MR3-3-Z.

Sold separately						
Part Name Dimensions		ツマミ/Knob				
		FB形		FN78		
	Part No.	14000050598	140000051012	14000050956	14000050601	
Color	Body	Silver	Black	Silver	Black	
COIOr	Indicator Line	Black	White	Black	White	
Body Material Aluminium		inium	Alum	inium		

Optional Accessories (MR, MRE series)

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