MRB(45°Step)

Washable

Super-Miniature Rotary Switches



RoHS Compliant

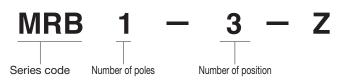
Features -

- 1. High contact reliability assured (Twin contact type)
- 2. Selection of various circuits is flexible.
- **3.** Fully-sealed structure protects the contacts from environmental contamination.
- 4. Immersion cleaning is possible.
- **5.** Best suited for use in dry circuit since the contacts and terminals are gold-plated.

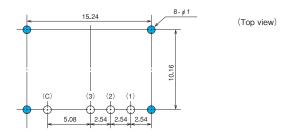
Specifications

Rating	0.4VA max. (12VDC max.)		
Initial contact resistance	200m $Ω$ max.	(1,5mA 200µVAC)	
Dielectric strength	250VAC 1 minute		
Insulation resistance	100M Ω min.	(100VDC)	
Electrical life	10,000 cycles		
Operating force	1.96~5.88N•cm		
Operating temperature range	-20~+70°C		
Storage temperature range	-40~+85°C	_	

■Part Numbering

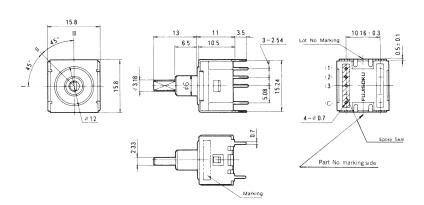


■PC Hole Layouts



MRB series

★MRB1-3-Z 1-pole 3-position



Terminal numbers are not shown on the switch.

Switching function						
Circuit arrangement			Circuit			
Position I	Position II	Position III	diagram			
ON	ON	ON	(C) $(\frac{1}{2})$			
C-1	C-2	C-3				

The shaft fully rotates 360 degrees. In the shaft positions other than I, II and III, the contacts is in the OFF state.

Washable

■Optional Accessories

《Sold separately》

	Doub Monac	Knob				
Part Name		FB		FN		
	Dimensions	12.7 \$ 2.7440.0 7 \$ 12.70		13. 9 Indicator Line 120.		
	Part No.	140000050598	140000051012	140000050956	140000050601	
Color	Body	Silver	Black	Silver	Black	
	Indicator Line	Black	White	Black	White	
Body Material Aluminium		Aluminium				

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

3. Mounting of Switch -

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- (1) Use the PC boards of ϕ 1 holes.
- (2)Do not bend the terminals before mounting the switch on the PC board.
- (3)After mounting the switch, do not place the device in such a way that the device weight will be applied on the knob, etc. of the switch.
- (4)Do not apply a load exceeding 29.4 N (3 kgf) to the knob.