MR(36°Step)

Miniature Rotary Switches

RoHS Compliant



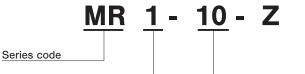
■ Features —

- Resin (UL94V-0) which has excellent resistance to arc and heat, and superb insulation quality is employed.
- 2. The terminals are molded in to ensure the 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.

■ Specifications -

| Contact plating | | Silver plated | | |
|-----------------------------|------|------------------------|--|--|
| Rating | Max. | 500 mA 125 VAC | | |
| | Min. | 10 mA 5 VAC/DC | | |
| Initial contact resistance | | 10 mΩ max.(1A 2~4 VDC) | | |
| Dielectric strength | | 1,000 VAC 1minute | | |
| Insulation resistance | | 100 MΩ min. (500 VDC) | | |
| 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

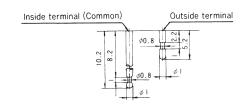


Number of poles

1 1 pole
2 2 poles

| Number of positions | | | |
|---------------------|--------------|--|--|
| 10 | 10 positions | | |
| 5 | 5 positions | | |

■ Terminal Styles -



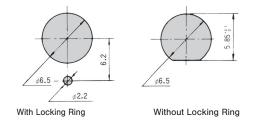
■ Standard Accessories -

《Supplied with switch》

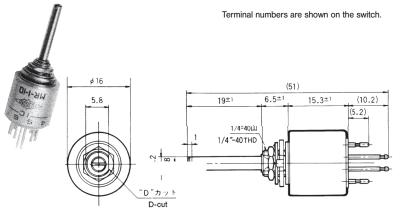
| (Supplied with switch) | | | | |
|------------------------|---------------|--------------|--------------|--------------|
| Part name | Hex Nut | Lockwasher | Locking Ring | Stopper |
| Part No. | 140008010241 | 140008030051 | 140008020066 | 140000600357 |
| Dimensions | 1/4"-40 THD | 6.6 t=0.5 | 6.5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

■ Panel Cut-Out Dimensions

Panel thickness: 2 mm max.

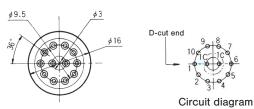


MR1-10-Z 1-pole 10-positions



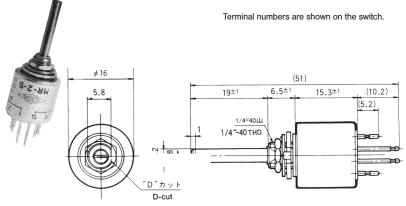
| Part No. | Number of steps | Step angle | |
|-----------|----------------------------|------------|--|
| ☆MR1-10-Z | Repetition of from 1 to 10 | 36° | |

From 2 to 9-position can be selected by variable stopper.



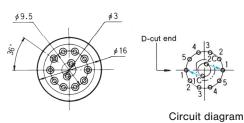
X Two Common terminals (1C) are internally short-circuited. Select either one depending on wiring arrangements.

MR2-5-Z 2-poles 5-positions

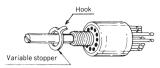


| Part No. | Number of steps | Step angle | |
|----------|----------------------------|------------|--|
| ☆MR2-5-Z | (Repetition of from 1 to 5 | 36° | |

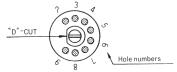
From 2 to 4-position can be selected by variable stopper.



■ 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》

| | #oora separately# | | | | |
|---------------|-------------------|---|--------------|--|--------------|
| Part Name | | Knob | | | |
| | | FB type | | FN type | |
| Dimensions | | 16 E-M44/0.7 20 20 20 20 20 20 20 20 20 20 20 20 20 | | 13 - 2 - MAX 0.7 7 1 1 2 2 MAX 0.7 7 1 1 2 2 MAX 0.7 7 1 1 2 2 MAX 0.7 7 1 2 2 2 MAX 0.7 7 1 2 2 2 MAX 0.7 7 1 2 2 2 2 MAX 0.7 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | |
| 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.