

# MRP

## Pulse Switches



RoHS Compliant



### Features

- 1. Miniature size of 10 mm square.
- 2. Gold-plated contacts for high contact reliability.
- 3. Easy mounting on PC board in a single-touch operation is ensured. Compatible with auto soldering.

### Specifications

Rating	10mA 5VDC
Dielectric strength	250VAC 1 minute
Insulation resistance	100MΩ min. (250VDC)
Electrical life	10,000 cycles
Operating force	0.098~0.98N·cm
Operating temperature range	-20~+70℃
Storage temperature range	-40~+85℃

### Part Numbering

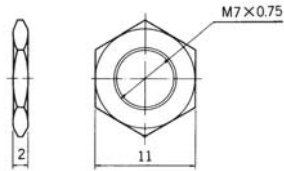

MRP 1 — 20 — R — Z

Series code      Number of poles      Number of pulse      Mounting

Fig.	Mounting
None	Bracket mounting
1	Nut mounting
R	Right angle

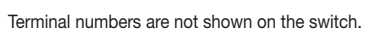
### Standard Accessories (for MRP 1—20—1 only)

《Supplied with switch》

Part Name	Nut	Washer
Part Number	140008010193	140008150123
Dimensions	 Nickel Plated	 Zinc plated

●We accept orders for custom-made knobs for MRP. Please contact us.

★MRP1-20-Z (Bracket mounting)



Terminal numbers are not shown on the switch.

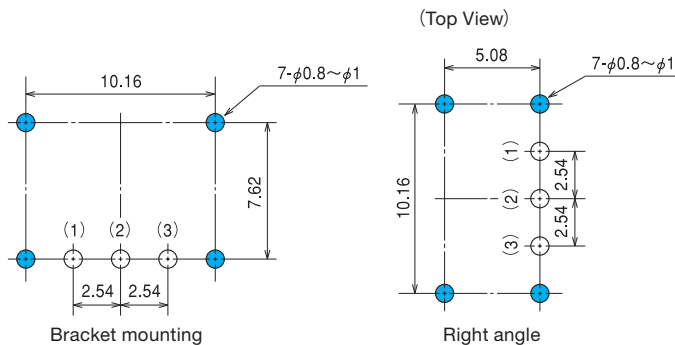
Terminal numbers are not shown on the switch.

## MRP

### ■Circuit Characteristics

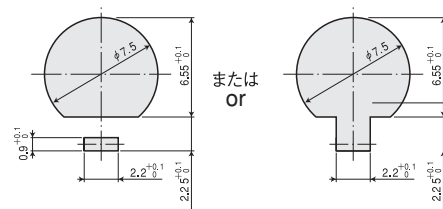
Operating direction	Connecting terminal	Step angle						
		0	18°	36°	324°	342°	360°	
Clockwise	2—1	ON						

### ■PC Hole Layouts



### ■Panel Cut-Out Dimensions

Panel thickness : 2 mm max.



### ■Handling Precautions (MRP & DRS series)

#### 1. Soldering Specifications

##### (1) Manual Soldering

Device : Soldering iron  
270°C, Max.; 3 seconds, Max.

##### (2) Auto Soldering

Device: Jet wave type or dip type  
260±5°C; 5 seconds, Max.

• Pre-heating should be done at temperatures of 100°C or below and within 30 sec.

(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) Since the **MRP** Series products are not waterproof-structured, if the PC board is to be cleaned, clean the soldering surface of substrate with a brush so that the switch is not exposed to the cleaning solution.

#### 3. Mounting of Switch

- (1) Do not apply a load exceeding 29.4 N · cm to the fixing screws.
- (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 16.7 N to the knob.