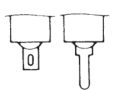
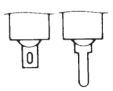


# EIGHT SWITCH SERIES

## 8 Switch Series Selection Table

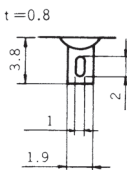
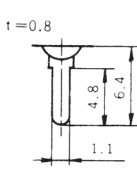
| Part No. | Name                         | Actuator shape                                                                      | Number of poles | Switching function                                       | Terminal style                                                                                 | Page |
|----------|------------------------------|-------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------|------|
| 8H       | Lever•Rocker                 |    | 1•2             | ON - ON<br>ON - OFF - ON<br>(ON)- OFF -(ON)<br>ON - (ON) | <br>S/D P/C | 307  |
| 8HD      | Lever•Rocker<br>(Dust Proof) |    | 1•2             |                                                          | <br>S/D P/C | 309  |
| 8M       | Small Lever Rocker           |    | 1•2•3•4         |                                                          | <br>S/D     | 311  |
| 8V-M     | Small Lever•Rocker<br>PC     |  | 1•2             |                                                          | <br>P/C   | 313  |

●P/C : Show PC terminal.

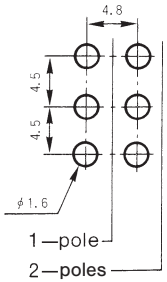
### 8 Switch Series Common Specifications

| Contact specs.                |                | Silver                                | Gold plated                                             |
|-------------------------------|----------------|---------------------------------------|---------------------------------------------------------|
| Rating                        | Max.           | 125 VAC 6A<br>250 VAC 3A<br>30 VAC 4A | 125 VAC 6 A<br>250 VAC 3 A<br>30 VDC 4 A<br>20 VDC 25mA |
| Initial contact resistance    |                | 10 mΩ Max.<br>(2~4 VDC 1 A)           | 20 mΩ Max.<br>(200 μVAC 1.5 mA)                         |
| Initial dielectric strength   |                | AC1500V/Minute                        |                                                         |
| Initial insulation resistance |                | 1000 MΩ Min. (500 VDC)                |                                                         |
| Electrical life               | Alternate type | 50,000/cycles                         |                                                         |
|                               | Momentary type | 25,000/cycles                         |                                                         |
| Operating temperature range   |                | -30~+85°C                             |                                                         |
| Storage temperature range     |                | -40~+85°C                             |                                                         |

### Terminal Styles

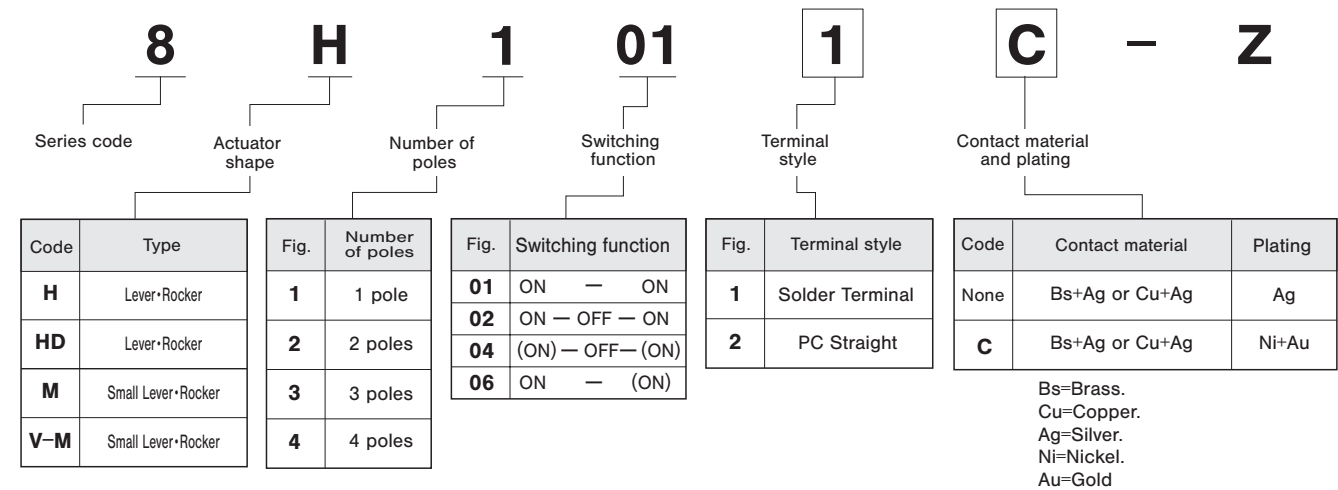
| Terminal style | Solder Lug<br>(Style : 1)                                                           | PC Straight<br>(Style : 2)                                                          |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dimensions     |  |  |

### PC Hole Layouts

| Dimensions |  |
|------------|---------------------------------------------------------------------------------------|
|------------|---------------------------------------------------------------------------------------|

(ON) : Momentary.

Part Numbering



Note : For some products, the part numbers according to the above-stated combinations are not registered yet. Check the Table of Part Numbers for availability.

# 8HD

## Lever & Rocker Switches

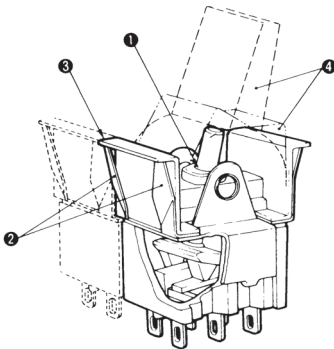
Dust Proof  
RoHS Compliant



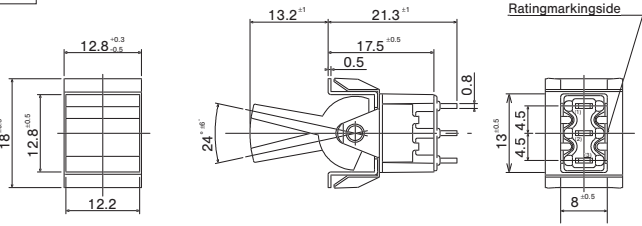
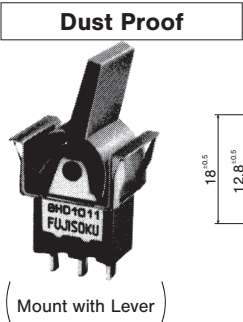
### Features

The 8HD Lever & Rocker switch is a dustproof version of the 8H type and is best suited for use in the adverse environment where a lot of dust exists. The lever, rocker, and mounting frame are available in four matted colors. Choose the suitable one for the panel design.

- ① Dustproof structure.
- ② Snap-in mounting on panel.  
(The hole layout is same as the 8H type.)
- ③ The side-by-side mounting will not cause gap between switches.
- ④ Colorful mat-finished levers and rockers that enhance the panel design can be mounted.



### SPDT

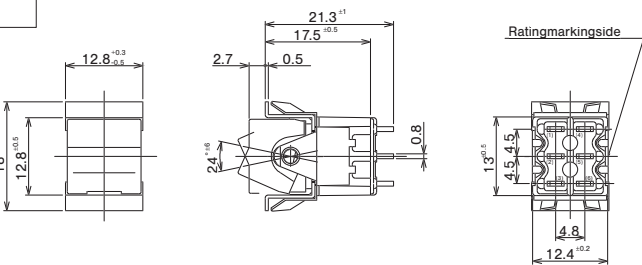
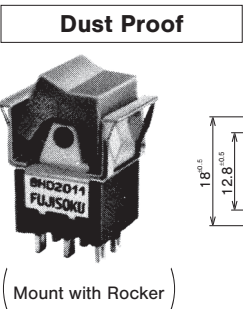


Terminal numbers are not shown on the bottom of the switch.

| Switching function   | Viewed from rating marking side |     |      |
|----------------------|---------------------------------|-----|------|
|                      |                                 |     |      |
| Part No.             |                                 |     |      |
| 8HD101■-Z            | ON                              | —   | ON   |
| 8HD104■-Z            | (ON)                            | OFF | (ON) |
| Connecting terminals | 2-3                             | —   | 2-1  |

■ : Look at follows.

### DPDT



Terminal numbers are not shown on the bottom of the switch.

| Switching function   | Viewed from rating marking side |     |            |
|----------------------|---------------------------------|-----|------------|
|                      |                                 |     |            |
| Part No.             |                                 |     |            |
| 8HD201■-Z            | ON                              | —   | ON         |
| 8HD202■-Z            | ON                              | OFF | ON         |
| Connecting terminals | 2-3<br>5-6                      | —   | 2-1<br>5-4 |

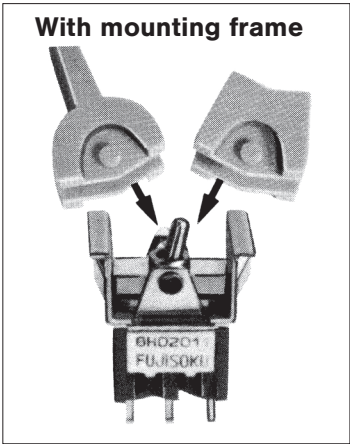
■ : Look at follows.

### Table of Part Numbers

| Terminal style  | Switching function | 1-pole      | 2-poles     |
|-----------------|--------------------|-------------|-------------|
| Solder Terminal | ON - ON            | ☆ 8HD1011-Z | ☆ 8HD2011-Z |
|                 | ON - OFF - ON      | —           | ☆ 8HD2021-Z |
|                 | (ON) - OFF - (ON)  | ★ 8HD1041-Z | —           |

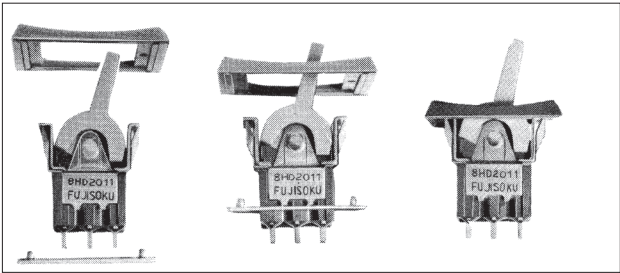
★ : Made to order products. ☆ : Semi-standard products. (ON) : Momentary.

■ Lever • Rocker Installation Procedure



■ Mounting Frame mounting Method

● Install the mounting frame as shown in the photo below.



● To mount the switch on the panel, press in the switch from the panel side with uniform pressure on the right and left.

■ Accessories

《Supplied separately》

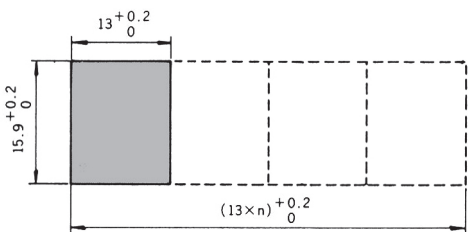
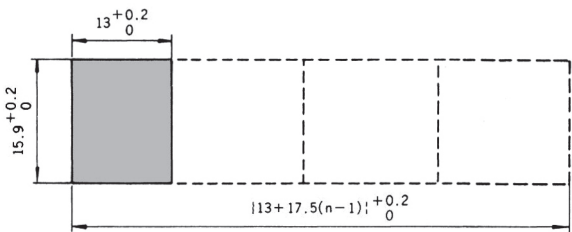
| Part Name                | Standard Accessories                                                                 |                                                                            | Optional Accessories                                                                                               |
|--------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                          | Lever                                                                                | Rocker                                                                     | Mounting Frame                                                                                                     |
| Dimensions<br>(Material) | Matte finish 2.4<br>3.2<br>R6.1<br>12.2<br>17.4<br>2.3<br>5.7<br>polycarbonate resin | Matte finish 9.1<br>12.2<br>8<br>2.3<br>12.2<br>5.7<br>polycarbonate resin | Matte finish 17.5<br>12.5<br>23.5<br>13.5<br>R52<br>3<br>polyacetal resin<br>Stainless-steel plate<br>140000600181 |
| White                    | 140000050558                                                                         | 140000480594                                                               | 140000340127+140000600181                                                                                          |
| Red                      | 140000050559                                                                         | 140000480595                                                               | —                                                                                                                  |
| Black                    | 140000050560                                                                         | 140000480596                                                               | 140000340129+140000600181                                                                                          |
| Gray                     | 140000050561                                                                         | 140000480597                                                               | 140000340130+140000600181                                                                                          |

○ Specify either one of Lever or Rocker in part number when placing an order.

■ Panel Cut-Out Dimensions

Panel thickness(With mounting frame) : 1 to 2.5mm

Panel thickness(Without mounting frame) : 1 to 3mm



■ Handling Precautions

1. Soldering Specifications

(1)Manual Soldering

Device : Soldering iron

①420°C, Max.; 3 sec., Max.

(2)Auto Soldering

②275°C ± 10°C, Max.; 5 seconds, Max.

Note that the above-stated soldering conditions should be applied to the PC terminal type only.

2. Flux Cleaning

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

Solvent: Fluorine or Alcohol type

(2)Since the 8HD Series switches 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.

■ :Optional Accessories.