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		S/D P/C	307
8HD	Lever・Rocker (Dust Proof)		1・2	ON － ON ON － OFF － ON (ON)－ OFF －(ON) ON － (ON)	S/D P/C	309
8M	Small Lever Rocker		1・2・3・4		S/D	311
8V−M	Small Lever・Rocker PC		1・2		P/C	313

●P/C：Show PC terminal.

■ 8 Switch Series Common Specifications

Contact specs.		Silver	Gold plated
Rating	Max.	125 VAC 6A 250 VAC 3A 30 VAC 4A	125 VAC 6 A 250 VAC 3 A 30 VDC 4 A 20 VDC 25mA
Initial contact resistance		10 mΩ Max. (2～4 VDC 1 A)	20 mΩ Max. (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℃	
Strage temperature range		−40～+85℃	

■ Terminal Styles

Terminal style	Solder Lug (Style : 1)	PC Straight (Style : 2)
Dimensions		

■ PC Hole Layouts

Dimensions	

(ON)：Momentary.

■Part Numbering

| 8 | H | 1 | 01 | 1 | C | – | Z |

Series code | Actuator shape | Number of poles | Switching function | Terminal style | Contact material and plating

Code	Type
H	Lever・Rocker
HD	Lever・Rocker
M	Small Lever・Rocker
V–M	Small Lever・Rocker

Fig.	Number of poles
1	1 pole
2	2 poles
3	3 poles
4	4 poles

Fig.	Switching function
01	ON — ON
02	ON — OFF — ON
04	(ON) — OFF— (ON)
06	ON — (ON)

Fig.	Terminal style
1	Solder Terminal
2	PC Straight

Code	Contact material	Plating
None	Bs+Ag or Cu+Ag	Ag
C	Bs+Ag or Cu+Ag	Ni+Au

Bs=Brass.
Cu=Copper.
Ag=Silver.
Ni=Nickel.
Au=Gold

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.

UL、CSA (Lever・Rocker Type Only)

UL and CSA listed

■8Switch Series

Poles	Switching function				ꓴꓡ (File No.E43275)				ⓢ (File No.LR38341)			
					8H	8HD	8M	8V-M	8H	8HD	8M	8V-M
1–pole	101□	ON	–	ON	○	○	○	○	○	○	○	○
	102□	ON	– OFF –	ON	○				○			
	104□	(ON)	– OFF –	(ON)	○	○			○	○		
	106□	ON	–	(ON)	○			○	○			○
2–poles	201□	ON	–	ON	○	○	○	○	○	○	○	○
	202□	ON	– OFF –	ON	○	○			○	○		
	204□	(ON)	– OFF –	(ON)	○				○			
	206□	ON	–	(ON)	○			○	○			○
3–poles	301□	ON	–	ON			○				○	
4–poles	401□	ON	–	ON			○				○	

(1) Terminal types: 1 Solder terminal; 2 Straight terminal.

(2) Even if the products are of UL-or CSA-approved ones, The products in stock do not carry the UL mark of the CSA mark. When placing an order,be sure to specify "With UL/CSA Mark." For the products with the UL mark or the CSA mark,extra costs will be added.
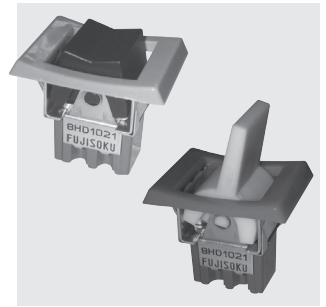
(3) (※1.)UL File No.E43275
   (※2.)CSA File No.LR38341

(4) As shown in the above chart, not all products are UL recognized or CSA-certified. Please check with your local sales epresentative if you have any questions.

(ON)：Momentary.

8HD

Lever & Rocker Switches

■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.

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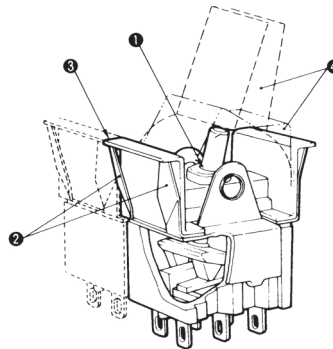
SPDT

Dust Proof
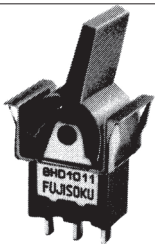
(Mount with Lever)
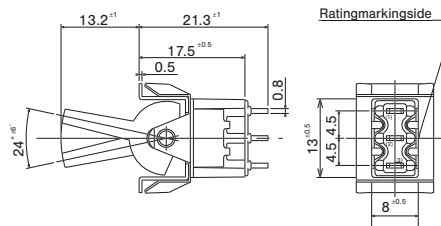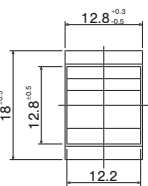
Terminal numbers are not shown on the bottom of the switch.

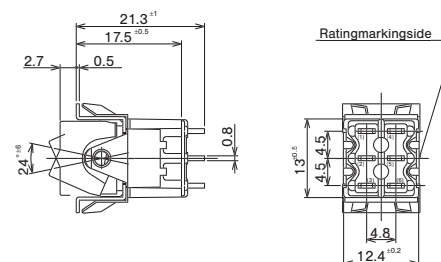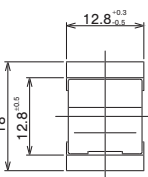| Switching function / Part No.	Viewed from rating marking side		
8HD101■−Z	ON	−	ON
8HD104■−Z	(ON)	OFF	(ON)
Connecting terminals	2−3	−	2−1

■ : Look at follows.

DPDT

Dust Proof
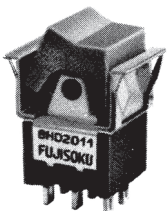
(Mount with Rocker)

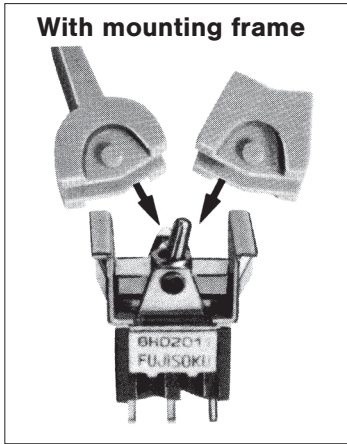Terminal numbers are not shown on the bottom of the switch.

Switching function / Part No.	Viewed from rating marking side		
8HD201■−Z	ON	−	ON
8HD202■−Z	ON	OFF	ON
Connecting terminals	2−3 5−6	−	2−1 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

With mounting frame

■ Mounting Frame mounting Method

● Install the mounting frame as shown in the photo below.
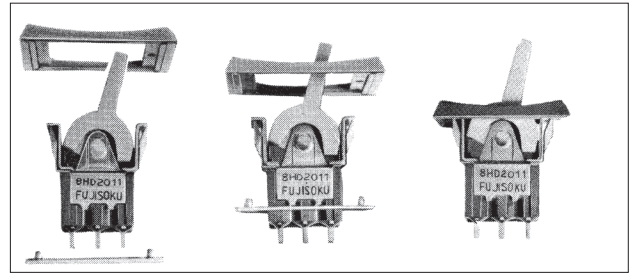
● To mount the switch on the panel, press in the switch from the panel side with uniform pressure on the right and left.

■ Accessories

《Supplied separately》

Part Name	Standard Accessories		Optional Accessories
	Lever	Rocker	Mounting Frame
Dimensions (Material)	Matte finish (polycarbonate resin)	Matte finish (polycarbonate resin)	Matte finish (polyacetal resin / Stainless-steel plate) 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
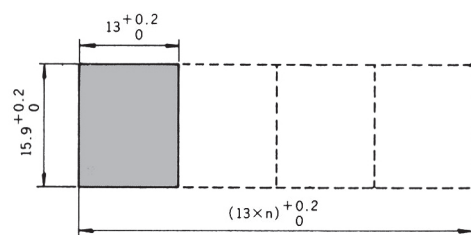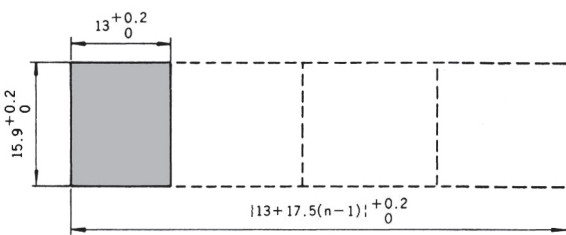
■ Handling Precautions

1. Soldering Specifications

(1) Manual Soldering
   Device : Soldering iron
   ① 420℃, Max.; 3 sec., Max.

(2) Auto Soldering
   ② 275℃ ± 10℃, 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.