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8 Series Pushbutton Switches

■Features

1. Contacts
Silver or gold-plated contacts.

2. Epoxy resin case
UL94V-0 self-extinguishing epoxy.

3. Actuator style
Over 30 actuator variations.

4. Insulation between terminal and ground: 4 mm minimum.

5. Prevention of flux entry
The epoxy resin seal on bottom of the switch helps prevent the entry of solder and flux.

6. Insulation barrier:
Insulation barrier design between poles helps prevent short-circuiting between poles ensuring high reliability.

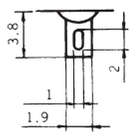
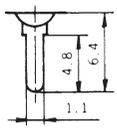
7. For UL-recognized and CSA-approved products, please refer to P.276.

■ Specifications

Rating	Max. rating	6A 125VAC/3A 250VAC/4A 30VDC	
Initial contact resistance		10mΩmax. (1A 2～4VDC)	
Initial dielectric strength		1,500VAC 1 minute	
Initial insulation resistance		1,000MΩ min. (500VDC)	
Electrical life (Excluding **8R** & **8W**)		Alternate type	40,000 operations
		Momentary type	25,000 operations
Operating temperature range		−30℃～+85℃	
Storage temperature range		−40℃～+85℃	

(Excluding **8R** & **8W**. Specifications on 8R and 8W series are specified separately on P.264 and P.269.)

■ Terminal Styles

Solder (Style:**1**)	Straight (Style:**2**)
t=0.8 	t=0.8 

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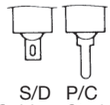
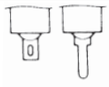
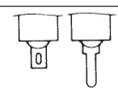
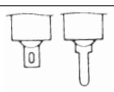
8 Series Pushbutton Switches Selection Table

Part No.	Name	Actuator shape	Number of poles	Switching function	Terminal style	Page
8N	Standard Pushbutton		1.2.3.4	ON — ON ON — (ON)	 S/D Solder P/C Straight	**261**
8P	Splash Proof Pushbutton		1.2.3.4	ON — ON ON — (ON)	 S/D Solder P/C Straight	**263**
8Y	Mustang Pushbutton		1.2.3.4	ON — ON ON — (ON)	 S/D Solder	**265**
8R-N	Soft Touch Pushbutton		1.2	ON — ON ON — (ON)	 S/D Solder P/C Straight	**267**
8W-N	Snap-in Pushbutton		1.2	ON — (ON)	 S/D Solder P/C Straight	**269**

■Part Numbering

8 — Series code

N — Actuator shape

Code	Actuator
N	Standard
P	Splash proof
Y	Mustang
R	Soft Touch
W	Snap-in

1 — Number of poles

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

01 — Switching function

Fig.	Switching function
01	ON — ON
02	ON — (ON)

1 — Terminal style

Fig.	Terminal style
1	Solder
2	PC/Straight

B — (※1) Contact plating and material

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

※1 Bs= Brass
Cu= Copper
Ag= Silver
Ni= Nickel
Au= Gold

Z

Note : Some combinations may not be available. Please check the "**Table of Part Numbers**" for each series.

(ON) : Momentary.

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8Y

Mustang Pushbutton Switches



RoHS Compliant

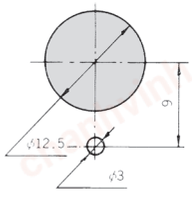
■Features

The 8Y series is a sub-miniature pushbutton switch with a larger, rugged actuator and a larger bushing. Suitable for applications where panel space is limited and a larger actuator is needed.

■ Table of Part Numbers

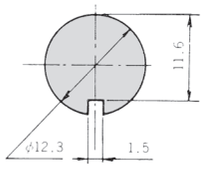
Terminal style	No. of ploe / Switching function	1 pole	2 poles	3 poles	4 poles
S/D	ON — ON	**8Y1011−Z**	**8Y2011−Z**	**8Y3011−Z**	★ **8Y4011−Z**
	ON — (ON)	**8Y1021−Z** ——	☆ **8Y2021−Z** ▲ **8Y2021C−Z**	★ **8Y3021−Z** ——	★ **8Y4021−Z** ——

■Panel Cut-Out Dimensions



With **Locking Ring**

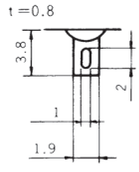
Panel thickness : 5 mm max.



Without **Locking Ring**

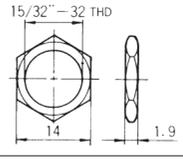
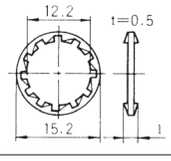
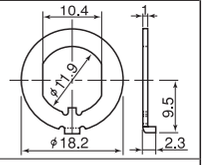
■Terminal Styles

Solder (Style:**1**)



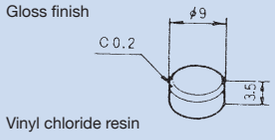
■ Standard Accessories

《Supplied with switch》

Hex Nut	Lockwasher	Locking Ring
140008010243	**140008030055**	**140008020067**
		
Nickel plated	Zinc plated	Zinc plated

■Optional Accessories

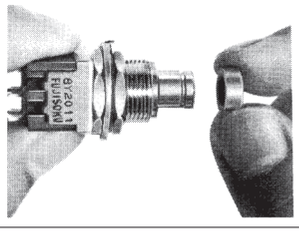
《Sold separately》

Color Cap		
Dimensions	Color	Part No.
	White	**140000470023**
	Red	**140000470052**
	Black	**140000470051**
	Gray	**140000470057**

●Specify the **Color Cap** by part number if **Color Cap** is desired.

■Color Cap Mounting

Snap in the color button on to the actuator.



:Optional Accessories. ★ : Made to order products. ☆ : Semi-standard products. (ON) : Momentary. ▲ : Inquiry products.

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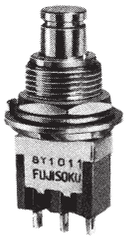
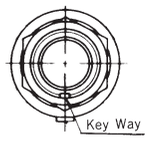
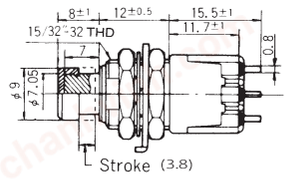
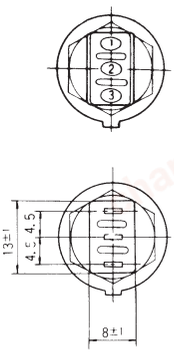
8Y

SPDT









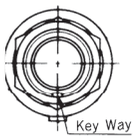
Switching function / Part No.		
※ 8Y1011−Z	ON	ON
8Y1021−Z	ON	(ON)
Connecting terminals	2−3	2−1

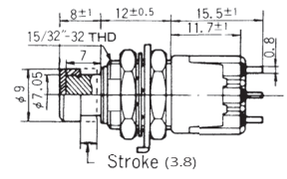
S/D

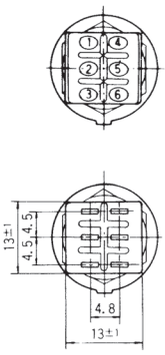
Terminal numbers are not shown on the switch.

DPDT









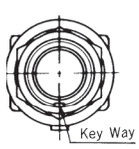
Switching function / Part No.		
※ 8Y2011−Z	ON	ON
☆ 8Y2021−Z	ON	(ON)
Connecting terminals	2−3 5−6	2−1 5−4

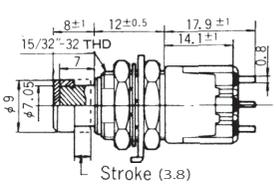
S/D

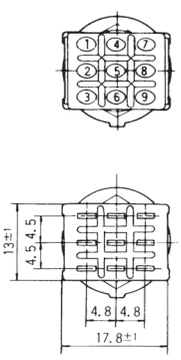
Terminal numbers are not shown on the switch.

3PDT









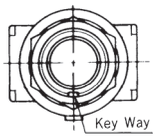
Switching function / Part No.		
※ 8Y3011−Z	ON	ON
★ 8Y3021−Z	ON	(ON)
Connecting terminals	2−3 5−6 8−9	2−1 5−4 8−7

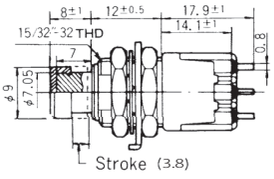
S/D

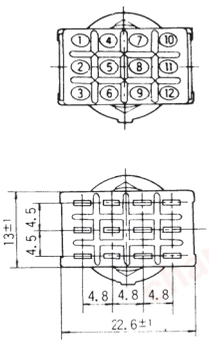
Terminal numbers are not shown on the switch.

4PDT









Switching function / Part No.		
★※ 8Y4011−Z	ON	ON
★ 8Y4021−Z	ON	(ON)
Connecting terminals	2−3 5−6 8−9 11−12	2−1 5−4 8−7 11−10

S/D

Terminal numbers are not shown on the switch.

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

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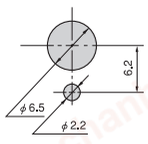
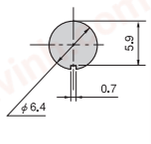
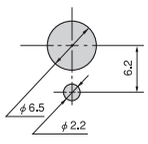
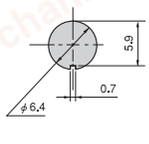
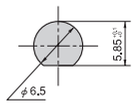
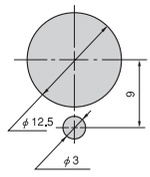
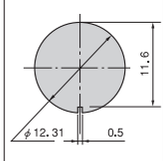
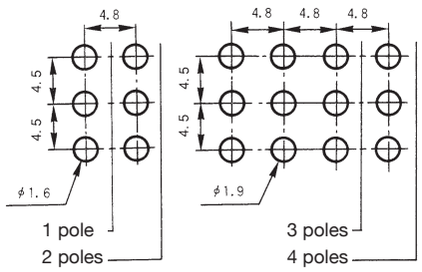
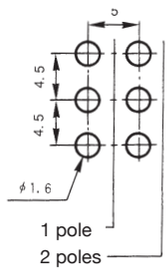
■Panel Cut-Out Dimensions

Series	8N		8R		8P	8Y	
Panel thickness	1.5 mm Max.	2.5 mm Max.	2 mm Max.	3 mm Max.	4.5 mm Max.	5 mm Max.	6 mm Max.
Dimensions	 With **Locking Ring**	 Without **Locking Ring**	 With **Locking Ring**	 Without **Locking Ring**		 With **Locking Ring**	 Without **Locking Ring**

■PC Hole Layouts

Series	8N・8P	8R・8W
Dimensions		

■Precautions (8N·8P·8R·8W·8Y)

1. Soldering Specifications

(1)Manual soldering

Device : Solder iron

①420℃ Max. 3 sec. Max.

(2)Auto soldering

②The above-stated soldering conditions shall apply only to switches with straight terminals. Auto soldering is not possible with right-angle terminals. Switches with right-angle terminals should be soldered manually according to the conditions specified in (1) above.

(3)When putting the switches through an aging process after they were soldered onto the printing board or after installed into a complete end product, be sure to remove the buttons ofthe switches.,

2. Mounting

- Do not bend the terminals before mounting the switch on the PC board.
- After mounting the switch, do not place the device in such a way that the device weight will be applied on to the actuator of the switch.
- For switches with straight terminals, solder the switch on the PC board after fixing the switch on the panel with a nut.

3. Flux Cleaning

(1)Solvent : Fluorine or Alcohol type.

(2)**8A/B/C/D/E/F/J/S** series are not washable. To wash the PC board, clean the soldering surface of the PC board with a brush so that the switch is not exposed to the cleaning solution.

■Packaging Specification

Perforated Plastic Bag 25 pcs/pack

