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.

■ Specifications -

Rating Max. rating		6A 125VAC/3A 250VAC/4A 30VDC			
Initial contac	t resistance	10m Ω max. (1A 2 \sim 4VDC			
Initial dielect	ric strength	1,500VAC 1 minute			
Initial insulation	on resistance	1,000MΩ min. (500VDC			
Electrical	life	Alternate type	40,000 operations		
(Excluding	8R & 8W)	Momentary type	25,000 operations		
Operating temperati	ıre range	−30°C~+85°C			
Storage temperatu	ıre range	-40°C∼+85°C			

(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	

UL-Recognized, CSA certified Products (Pushbutton type Only)

■Eight Switch Series

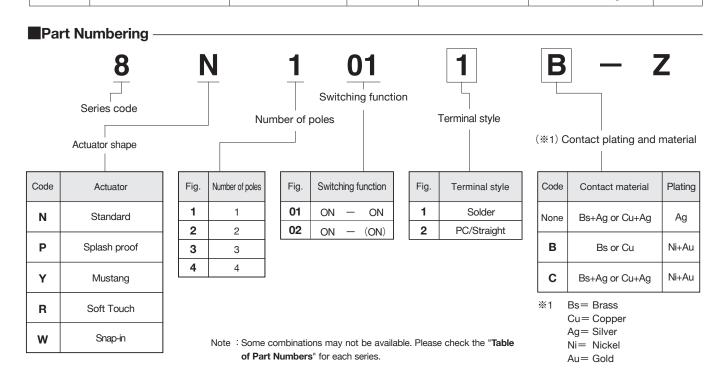
Poles	Switching function		91 (%2.)				(*3.)		
Poles			8N	8P	8Y	8N	8P	8Y	
	1011-Z	ON - ON	0	0	0	0	0	0	
1 200	1012-Z	ON - ON	0	0		0	0		
1 pole	1021-Z	ON (ON)	0					0	
	1022-Z	ON - (ON)	0	0		0	0		
	2011-Z	ON — ON	0	0	0	0	0	0	
noloo [2012-Z		0	0					
2 poles	2021-Z	ON -(ON)	0	0	0	0	0	0	
	2022-Z		0	0		0	0		
2 nolon	3011-Z	ON - ON	0	0				0	
3 poles	3021-Z	ON - (ON)	0					0	
4 polos	4011-Z	ON - ON	0		0	0	0	0	
4 poles	4021-Z	ON -(ON)	0	0					

(%2.) **UL File No.E43275**

(%3.) CSA File No.LR38341

If **UL** or **CSA** marking is required, please specify when ordering.

8 Series Pushbutton Switches Selection Table Part No. Name Actuator shape Switching function Terminal style Page Number of poles ON -ON **8N** Standard Pushbutton 1.2.3.4 261 ON - (ON)S/D P/C Solder Straight 0 ON - ON 8P Splash Proof Pushbutton 1.2 263 ON - (ON)S/D Solder 0 $\mathsf{ON}\ -\ \mathsf{ON}$ **8Y** Mustang Pushbutton 1.2.3 265 ON - (ON)Solder ON - ON Soft Touch Pushbutton 8R-N 1.2 267 ON - (ON)S/D P/C Solder Straight 0 8W-N Snap-in Pushbutton 1.2 ON - (ON)269 S/D P/C Solder Straight



8Y

Mustang Pushbutton Switches



RoHS Compliant

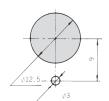
Features —

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	
Coldor Lug	ON - ON	8Y1011-Z	8Y2011-Z	8Y3011-Z	
Solder Lug	ON - (ON)	8Y1021-Z	☆ 8Y2021-Z	★ 8Y3021-Z	

■ Panel Cut-Out Dimensions -

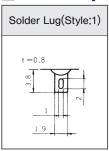


With Locking Ring

Panel thickness : 5 mm max.

Withou

■ Terminal Styles -



■ Standard Accessories -

《Supplied with switch》

Hex Nut	Lockwasher	Locking Ring		
140008010243	140008030055	140008020067		
15/32"-32 THD	12.2 t=0.5	10.4		
Nickel plated	Zinc plated	Zinc plated		

■Color Cap Mounting

Snap in the color button on to the actuator.



■ Optional Accessories —

《Sold separately》

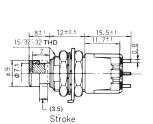
Color Cap					
Dimensions	Color	Part No.			
Gloss finish	White	140000470023			
C 0.2	Red	140000470052			
	Black	140000470051			
Vinyl chloride resin	Gray	140000470057			

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

SPDT









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

 $\ensuremath{\,\%\,}$: The circuit switches each time the switch button is pressed.

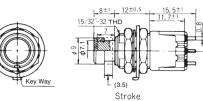
S/D

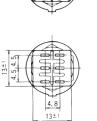
Terminal numbers are not shown on the switch.

DPDT









Part No. **※ 8Y2011−Z** ON ON 8Y2021-Z ON (ON) 2-3 Connecting terminals 5-6 5-4

Switching function

* The circuit switches each time the switch button is pressed.

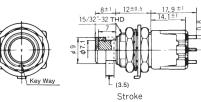
S/D

Terminal numbers are not shown on the switch.

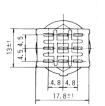
3PDT











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

*: The circuit switches each time the switch button is pressed.

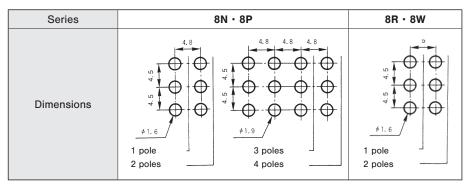
S/D

Terminal numbers are not shown on the switch.

Panel Cut-Out Dimensions

Series	8N		8	8R		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	₩ith Locking Ring	without Locking Ring	% on the state of	without Locking Ring	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	y 12.5 y 3 With Locking Ring	€ 12.31 0.5
	With Locking Ring	Without Locking Ring	With Locking Ring	Without Locking Ring		With Locking Ring	Without Locking Ring

■PC Hole Layouts



Precautions (8N·8P·8R·8W·8Y)

1. Soldering Specifications

(1)Manual soldering

(2)Auto soldering

2275°C ±10°C 5 sec. Max.

The 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 of the 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

