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 125 VAC/3A 250 VAC/4A 30 VDC(Resistive load)		
nating	Max. railing	TOA 125 VAC/SA 250 VAC/4A 50 VDC(NESISTIVE TOAU)		
Initial contact resistance		10 m Ω max. (1A 2 \sim 4 VD		
Initial dielectric strength		1,500 VAC 1 minute		
Initial insulation resistance		1,000 M Ω min.	(500 VDC)	
Electrical	life	Alternate type	40,000 operations	
(Excluding	8R & 8W)	Momentary type	25,000 operations	
Operating temperatu	re range	-30°C~+85°C		
Storage temperatu	re range	−40°C~+85°C		

(Excluding 8R & 8W.)

■ Terminal Styles -

Solder(Style:1)	PC Straight (Style:2)
t=0.8	1.1

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.

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

■Eight Switch Series -

Poles	Switching function		91 (%2.) ((%3.)					
1 0103	Ownoning	, idilotion	8N	8P	8Y	8N	8P	8Y
	1011-Z	ON - ON	0	0	0	0	0	0
1 pole	1021-Z	ON (ON)	0	0	0	0	0	0
	1022-Z	ON -(ON)	0			0		
	2011-Z	ON - ON	0	0	0	0	0	0
2 poles	2012-Z		0			0		
2 poles	2021-Z	ON -(ON)	0	0	0	0	0	0
	2022-Z	ON -(ON)	0			0		
3 poles	3011-Z	ON – ON	0		0	0		0
3 poles	3021-Z	ON -(ON)	0		0	0		0
1/1 noles	4011-Z	ON - ON	0			0		
	4021-Z	ON -(ON)	0			0		

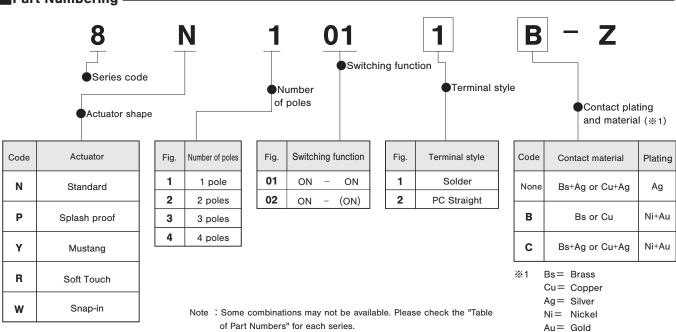
(※2.) UL File No.E43275

(*3.) CSA File No.LR38341

8 Series Pushbutton Switches Selection Table

Part No.	Name	Actuator shape	Number of poles	Switching function	Terminal style	Page
8N	Standard Pushbutton	1	1.2.3.4	ON - ON ON - (ON)	S/D P/C Solder Straight	239
8P	Splash Proof Pushbutton	I	1.2	ON - ON ON - (ON)	S/D Solder	242
8Y	Mustang Pushbutton	4	1.2.3	ON - ON ON - (ON)	S/D Solder	245
8R-N	Soft Touch Pushbutton	1	1.2	ON - ON ON - (ON)	S/D P/C Solder Straight	248
8W-N	Snap-in Pushbutton	TT	1.2	ON - (ON)	S/D P/C Solder Straight	251

Part Numbering -



8Y

Mustang Pushbutton Switches



RoHS Compliant

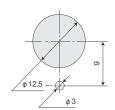
■ Features

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 pole Switching function	1 pole	2 poles	3 poles
Caldon Luc	ON - ON	8Y1011-Z	8Y2011-Z	8Y3011-Z
Solder Lug	ON - (ON)	8Y1021-Z	☆ 8Y2021-Z	★ 8Y3021-Z

■Panel Cut-Out Dimensions



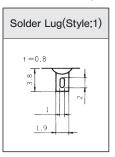
With Locking Ring

Panel thickness : 5 mm max.

φ12.3

Withou

■Terminal Styles -



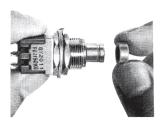
■ Standard Accessories -

《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»

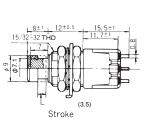
Color Cap		
Dimensions	Color	Part No.
Gloss finish C 0.2 Vinyl chloride resin	White Red Black	140000470023 140000470052 140000470051

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

SPDT









13±1	(00000)	
	8±1	

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

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

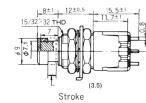
S/D

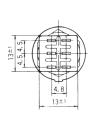
Terminal numbers are not shown on the switch.

DPDT









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

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

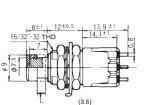
S/D

Terminal numbers are not shown on the switch.

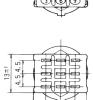
3PDT







Stroke



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

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

S/D

Terminal numbers are not shown on the switch.

Precautions

1. Soldering Specifications

(1)Manual soldering

Device : Solder iron 10420°C Max. 3 sec. Max.

(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)8 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

