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	0A 123 VAC/3A 230 VAC/	74A 30 VDC(Nesistive load)	
Initial contac	t resistance	10 m Ω max. (1A 2 \sim 4 VI		
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 temperature range		-30°C~+85°C		
Storage temperature 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 Switchi		function		91 (%2.)		(§P) (%3.)
1 0103	Owitering furiction		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	ON ON	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
4 nolos	4011-Z	ON - ON	0			0		
4 poles	4021-Z	ON -(ON)	0			0		

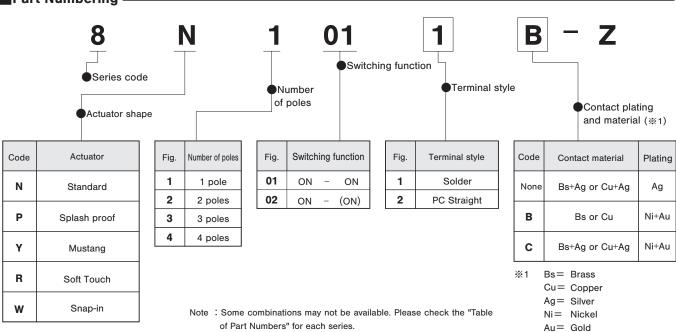
(※2.) UL File No.E43275

(*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 -



8W-N

Snap-in Pushbutton Switches



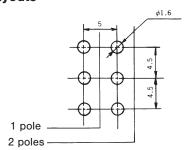
RoHS compliant

Features -

The 8W Snap-in Pushbutton switch is an 8R Soft Touch Pushbutton switch with a 12 mm square button and a mounting frame.

The panel cut-out dimensions are the same as the 8H series Lever & Rocker switches which enables side-by-side mounting. Buttons and mounting frames are available in 4 colors.

■PC Hole Layouts



■Terminal Styles

Solder(Style:1)	PC Straight(Style:2)
t=0.8	t=0.8
1 N	1.1 \$\tilde{\pi}\$ \frac{4}{6}\$

■ Specifications

Detino	Silver plated	3A -	125VA	C	(Resistive load)
Rating	Gold plated	Max.	60mA	30VDC	(Resistive load)
Initial contact resistance	Silverplated	Silverplated $10m\Omega$ max. $(1A 2\sim 4VDC)$			2∼4VDC)
illiliai contact resistance	Gold plated	20m	Ω max	x. (5mA	200µVAC)
Initial dielectric strength	1,000VAC 1 minute		nute		
Initial insulation resistance	1,000MΩ min.			(500VDC)	
Electrical life	25,000 opera	ations	(50,000	operatio	ns:Gold plate)
Operating temperature range	-20°C~+	85℃			
Storage temperature range	-40°C~+	85 [°] ℃			
Operating force	8W102 ■ −N−Z			2.94±0	.98N
Operating force	8W202 ■ -I	N-Z		4.9±1.96	βN

■Standard Accessories —

《Supplied with switch》

	Button	
Dimensions	Color	Part No.
Polyamide resin _{R52} Gloss finish	White Red Black Gray	140000480634 140000480639 140000480640 140000480641

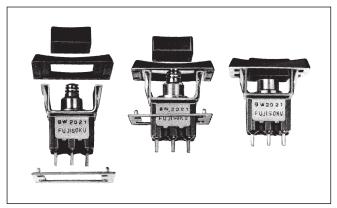
Mounting Frame				
Dimensions	Color	Part No.		
Polyamide resin Gloss finish	White	140000340135 +140000600181		
	Red	140000340136 +140000600181		
113	Black	140000340137 +140000600181		
Stainless-steel plate	Gray	140000340138 +140000600181		

●Please specify the Button and the Mounting Frame when ordering.

■Table of Part Numbers -

Terminal style	pole Switching function	1 pole	2 poles
Solder Lug	ON - (ON)	8W1021-N-Z	★8W2021-N-Z
PC Straight	ON - (ON)	★8W1022B-N-Z	

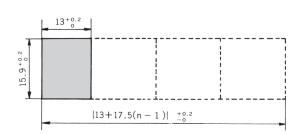
■Button and Mounting Frame Installation

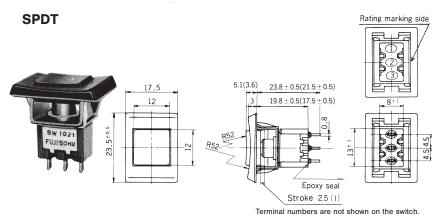


OSpecify part number of Button and Mounting Frame when ordering.

■Panel Cut-Out Dimensions

Panel thickness (with Mounting Frame): 1 mm to 2.5 mm





Switching function Part No.	I	Ť
8W102 ■ -N-Z	ON	(ON)
Connecting terminals	3-2	3-1

- *: The circuit switches each time the switch button is pressed.
- : Please refer to "Table of Part Numbers" above for a list of full part numbers.

DPDT		Rating marking side
	$5.1(3.6)$ $23.8 \pm 0.5(21.5 \pm 0.5)$	2 5
17.5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12.9 - 0.3
8 2 2 2 1 5 0 2 1 5 0 2 1 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R52	13:-1
	Epoxy seal Stroke 2.5 (I)	5

Switching function Part No.	I	Ť
8W202 ■ −N−Z	ON	(ON)
Connecting torminals	3-2	3-1
Connecting terminals	6-5	6-4

- * The circuit switches each time the switch button is pressed.
- : Please refer to "Table of Part Numbers" above for a list of full part numbers.

Precautions

1. Soldering Specifications

(1)Manual soldering

Device: Solder iron
1)420°C Max. 3 sec. Max.

(2)Auto soldering

2)275°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

