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 mΩ max.	(1A 2~4 VDC)	
Initial dielectric strength		1,500 VAC 1 minute		
Initial insulation resistance		1,000 M Ω min.	(500 VDC)	
Electrical	life	Alternate type 40,000 operation		
(Excluding	8R & 8W)	Momentary type	25,000 operations	
Operating temperature 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.)					%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	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		

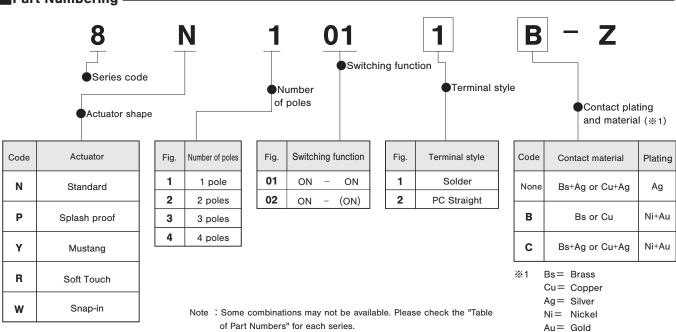
(※2.) UL File No.E43275

(*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 -



8N

Standard Pushbutton Switches



RoHS Compliant

Features ——

The 8N standard pushbutton switch is the basic type of "8" Series. Momentary and alternate functions are available. Color button is available in 8mm, 10mm and 15mm diameter and in 4 colors.

■ Table of Part Numbers —

Terminal style	No. of pole Switching function	1 pole	2 poles	3 poles	4 poles
Caldanii	ON - ON	8N1011-Z	☆ 8N2011-Z	★ 8N3011-Z	▲ 8N4011-Z
Solder Lug	ON - (ON)	8N1021-Z ▲ 8N1021C-Z	8N2021-Z	★ 8N3021-Z	★ 8N4021-Z
PC Straight	ON - ON		★ 8N2012-Z		
	ON - (ON)	☆ 8N1022-Z	☆ 8N2022-Z		

■ Standard Accessories —

《Supplied with switch》

Hex Nut	Lockwasher	Locking Ring
140008010241	140008030051	140008020062
1/4"—40 THD	6.6 t=0.5	6.4
Nickel plated	Zinc plated	Zinc plated

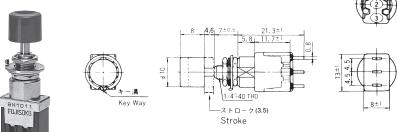
Color Button Mounting

Snap in the color button on to the actuator.



Part name		Color Button				
Dimension A		φ8	φ10	φ15		
Dime	ension B	7.5	8	10		
A	White	140000481420	140000480082	140000480088		
	Red	140000481421	140000480083	140000480089		
	Black	140000481422	140000480081	140000480090		
(Material : PA)	Gray	140000481423	140000480084	140000480091		

SPDT



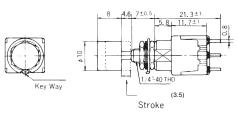
Terminal	numbers	are not	shown on	the switch	

Switching function	I	İ
% 8N101 ■ −Z	ON	ON
8N102 ■ -Z	ON	(ON)
Connecting terminals	2-3	2-1

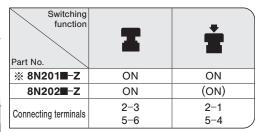
- $\ensuremath{\,\%\,}$: The circuit switches each time the switch button is pressed.
- : Please refer to "Table of Part Numbers" for a list of full part numbers.

DPDT





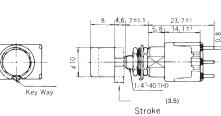
Terminal numbers are not shown on the switch.

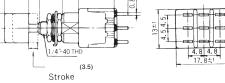


- *: The circuit switches each time the switch button is pressed.
- : Please refer to "Table of Part Numbers" for a list of full part numbers.

3PDT





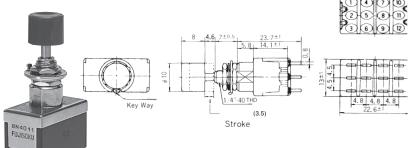


Terminal numbers are not shown on the switch.

Switching function Part No.	I	Ť	
※ 8N301■ −Z	ON	ON	
8N302 ■ -Z	ON	(ON)	
Connecting terminals	2-3 5-6 8-9	2-1 5-4 8-7	

- $\ensuremath{\,\%\,}$: The circuit switches each time the switch button is pressed.
- : Please refer to "Table of Part Numbers" for a list of full part numbers.

4PDT



Terminal	numbers	are	not	shown	on	the	switch

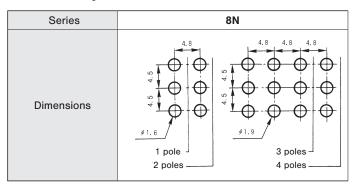
Switching function Part No.	I	İ	
※ 8N401■ -Z	ON	ON	
8N402 ■ -Z	ON	(ON)	
Connecting terminals	2-3 5-6 8-9 11-12	2-1 5-4 8-7 11-10	_

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

■ Panel Cut-Out Dimensions

Series	8N	
Panel thickness	1.5 mm Max.	2.5 mm Max.
Dimensions	with Locking Ring	₩ithout Locking Ring

■PC Hole Layouts



■Precautions -

1. Soldering Specifications

(1)Manual soldering

Device: Solder iron 1)420°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 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)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

