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.280.

■ Terminal Styles -

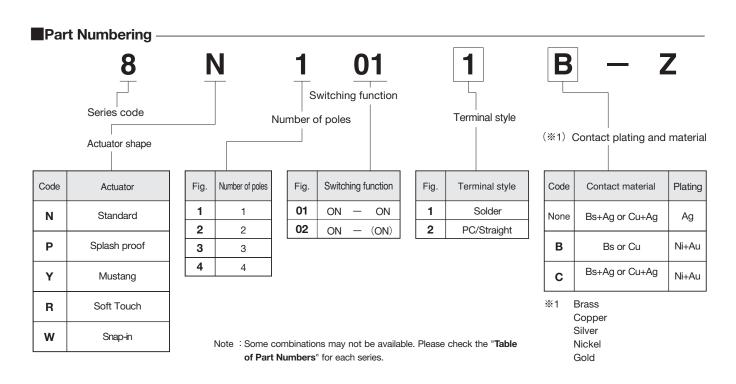
Solder(Style:1)	Straight (Style:2)
t=0.8	1.1

■ Specifications ·

Rating	Max. rating	6A 125VAC/3A 250VAC/4A 30VDC				
Initial contact	t resistance	10m Ωmax. (1A 2~4VDC)				
Initial dielectric strength		1,500VAC 1 minute				
Initial insulation	on resistance	$1,000M\Omega$ min. (500VDC)				
Electrical	life	Alternate type	40,000 operations			
(Excluding 8R & 8W)		Momentary type	25,000 operations			
Operating temperation	ire 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.271 and P.273.)

	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	265		
8P	Splash Proof Pushbutton	1	1.2.3.4	ON - ON ON - (ON)	S/D P/C Solder Straight	267		
8Y	Mustang Pushbutton	4	1.2.3.4	ON — ON ON — (ON)	S/D Solder	269		
8R-N	Soft Touch Pushbutton	4	1.2	ON — ON ON — (ON)	S/D P/C Solder Straight	271		
8W-N	Snap-in Pushbutton		1.2	ON - (ON)	S/D P/C Solder Straight	273		





RoHS Compliant

Standard Pushbutton Switches



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 eight colors.

Table of Part Numbers -

Terminal style	No. of ploe Switching function	1 pole	2 poles	3 poles	4 poles
Caldaul	ON — ON	8N1011-Z ★ 8N1011C-Z	☆ 8N2011-Z ▲ 8N2011C-Z	★ 8N3011-Z	▲ 8N4011-Z
Solder Lug	ON - (ON)	8N1021-Z ▲ 8N1021C-Z	8N2021 − Z ★ 8N2021C − Z	★ 8N3021 - Z	★ 8N4021-Z
Straight DC	ON - ON	★ 8N1012-Z	★ 8N2012-Z		
Straight PC	ON - (ON)	☆ 8N1022-Z	☆ 8N2022-Z		

■PC Hole Layouts — Page 275.

■Color Button Mounting

Snap in the color button on to the actuator.



Standard Accessories

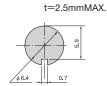
《Supplied with switch》

Hex Nut	Lockwasher	Locking Ring
140008010241	140008030051	140008020062
1/4"—40 THD	10.2	6.4
Nickel plated	Zinc plated	Zinc plated

■Panel Cut-Out Dimensions

t=1.5mmMAX.

With Locking Ring



Without Locking Ring

Par	t name	Color Button		
Dime	ension A	φ8	φ10	φ15
Dime	ension B	7.5	8	10
	White	140000481420	140000480082	140000480088
_	Red	140000481421	140000480083	140000480089
A	Black	140000481422	140000480081	140000480090
	Gray	140000481423	140000480084	140000480091
	Green	140000481424	140000480085	140000480092
	Blue	140000481425	140000480086	140000480093
	Orange	140000481426	140000480087	140000480094
(Material : PA)	Yellow	140000481427	140000480371	140000480372

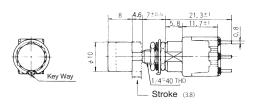
^{★ :} Made to order products.

(ON): Momentary.

[●]Hex Nut (2 pcs), Lockwasher (1 pc), and Locking Ring (1 pc) are supplied with the switch. A Color Button is also supplied with the switch. Please specify the part number from the above table when ordering.

SPDT









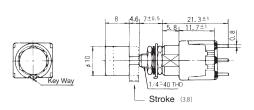
Terminal	numbers	are not	shown	on t	he switch	

Switching function Part No.	I	Ė
※ 8N101■−Z	ON	ON
8N102 ■ -Z	ON	(ON)
Connecting terminals	2-3	2-1

 Please refer to "Table of Part Numbers" on P.265 for a list of full part numbers.

DPDT









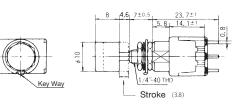
Terminal numbers are not shown on the switch.

Switching function	I	Ť
% 8N201 ■ -Z	ON	ON
8N202 ■ -Z	ON	(ON)
Connecting terminals	2-3 5-6	2-1 5-4

■ : Please refer to "Table of Part Numbers" on P.265 for a list of full part numbers.

3PDT







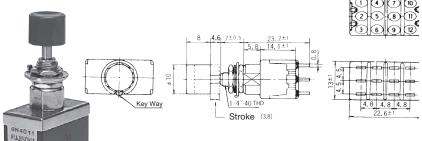
Terminal numbers are not shown on the switch.

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

■ : Please refer to "Table of Part Numbers" on P.265 for a list of full part numbers.

4PDT



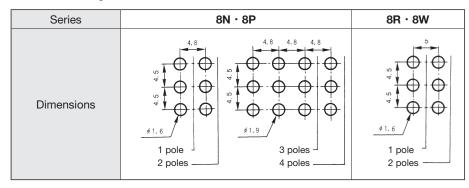
Switching		
function	I	Ť
Part No.		
※ 8N401 ■ - Z	ON	ON
8N402 ■ -Z	ON	(ON)
Connecting terminals	2-3 5-6 8-9 11-12	2-1 5-4 8-7 11-10

Please refer to "Table of Part Numbers" on P.265 for a list of full part numbers.

■ Panel Cut-Out Dimensions

Series	8	N	8	R	8P	8	Υ
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	v 6.5	0.7 \$\delta 6.4	\$6.5 \$2.2	0.7	9 € 6.5	¢12.5	\$ 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

Device : Solder iron ①420°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)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

