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	10mΩmax. (1A 2 \sim 4VDC				
Initial dielect	tric strength	1,500VAC 1 minute				
Initial insulati	on resistance	1,000MΩ min. (500VD				
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**. 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

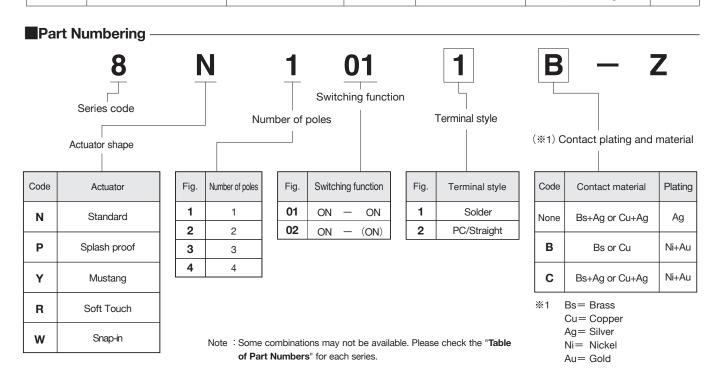
Poles	Conitabina function		91 (※2.)				(*3.)		
Poles	Switching	Switching function		8P	8Y	8N	8P	8Y	
	1011-Z	ON - ON	0	0	0	0	0	0	
1 200	1012-Z	ON - ON	0	0		0	0		
i pole	1 pole 1012 2	ON -(ON)	0					0	
	1022-Z	ON -(ON)	0	0		0	0		
	2011-Z	ON — ON	0	0	0	0	0	0	
0 = 1 = 1	2012-Z		0	0					
2 poles	2021-Z	ON -(ON)	0	0	0	0	0	0	
	2022-Z		0	0		0	0		
2 poloo	3011-Z	ON - ON	0	0	0			0	
3 poles	3021-Z	ON -(ON)	0		0				
4 poloo	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



Panel Seal

Splash Proof Pushbutton Switches



RoHS Compliant

Features —

The 8P series is a panel seal pushbutton switch with an O-ring to provide drip-proof and dust proof effect (corresponding to IP67 rating). Since a locking ring cannot be used because the panel seal is required, "D-cutting" is provided to the sleeve to prevent the switch from rotating. Note that the switch can also be mounted to a 6.5 mm dia. round hole instead of a "D-cut" hole without losing the drip-proof and dust proof effect.

■ Table of Part Numbers-

Terminal style	No. of ploe Switching function	1 pole	2 poles
	ON - ON	8P1011-Z	★ 8P2011-Z
Solder Lug	ON - (ON)	8P1021−Z ☆ 8P1021C−Z	8P2021-Z ▲ 8P2021C-Z

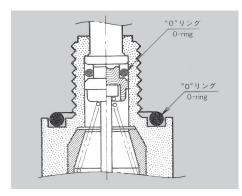
■PC Hole Layouts — Page 271.

Panel Cut-Out Dimensions — Page 271.

■ Standard Accessories —

《Supplied with switch》

Hex Nut	Lockwasher	O-Ring	
140008010241	140008030051	140000610076	
1/4"-40 THD	t=0.5	7.5	
Nickel plated	Zinc plated	Nitrile rubber (Black)	



The 8P series is intended for panel seal and is not designed for use in water.

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

★: Made to order products.

☆: Semi-standard products.

(ON): Momentary.

▲: Inquiry products.

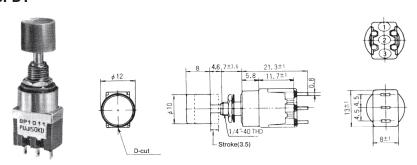
A Hex Nut, a Lockwasher, and an O-ring are supplied with the switch. A Color Button is also supplied with the switch. Please specify the part number from the above table when ordering.

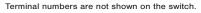
■Color Button Installation

Snap in the color button on to the actuator.



SPDT

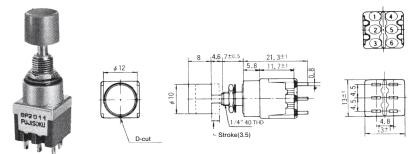




Switching function Part No.	I	Ė
※ 8Р101 ■−Z	ON	ON
8P102 ≡ −Z	ON	(ON)
Connecting terminals	2-3	2-1

- *: The circuit switches each time the switch button is pressed.
- : Please refer to "Table of Part Numbers" on P.263 for a list of full part numbers.

DPDT



Terminal	numbers	are	not	shown	on	the	switch.

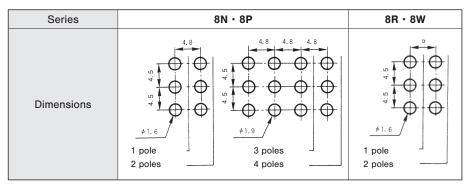
Switching function Part No.	I	Ė
※ 8Р201 ■−Z	ON	ON
8P202 ■ -Z	ON	(ON)
Connecting terminals	2-3 5-6	2-1 5-4

- $\ensuremath{\,\%\,}$: The circuit switches each time the switch button is pressed.
- : Please refer to "Table of Part Numbers" on P.263 for a list of full part numbers.

Panel Cut-Out Dimensions

Series	8	8N 8R		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 √ 6.5 √ 2.2 With Locking Ring	₩ithout Locking Ring	₩ith Locking Ring	without Locking Ring	\$\partial \text{\$\frac{\partial \text{\$\partial \text{\$\frac{\partial \text{\$\frac{\partial \text{\$\partial \text{\$\frac{\partial \text{\$\partial \text{\$\partial \text{\$\frac{\partial \text{\$\partial \text{\$\part	ψ12.5 ψ3 With Locking Ring	€ 12.31 0.5
	With Locking King	Williout Locking King	With Locking Hing	Williout Locking King		With Locking King	Williout Locking King

■PC Hole Layouts



Precautions (8N·8P·8R·8W·8Y)

1. Soldering Specifications

(1)Manual soldering

Device : Solder iron 100 € 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

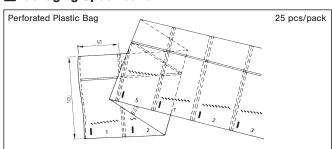
- Do not bend the terminals before mounting the switch on the PC board.
- After mounting the switch, do not place the device in such a way that the device weight will be applied on to the actuator of the switch.
- For switches with straight terminals, solder the switch on the PC board after fixing the 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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Pushbutton Switches category:

Click to view products by Nidec Copal manufacturer:

Other Similar products are found below:

8940K2012 LW1L-M1C10V-A LW1L-M1C70-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M22-D-R-GB0/K11 M7E-HRN2 67021K512 67081K512X 701PB580 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911 8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837 PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02 A3A-7140 A3A-7340 A3U-TMW-A2C-5M A595 12037A2ULCSA ABD122N-B 1211390004