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.276.

■ Specifications -

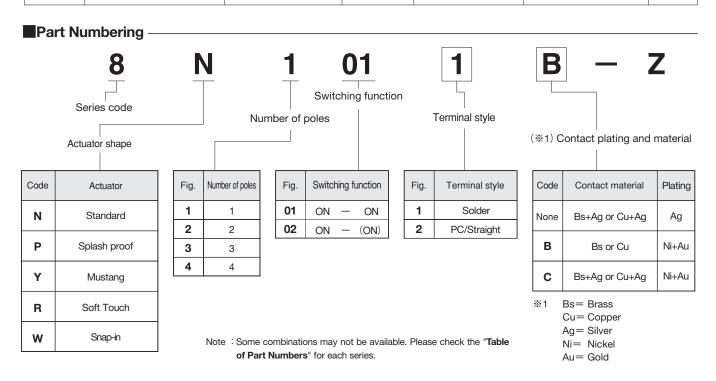
Rating	Max. rating	6A 125VAC/3A 250VAC/4A 30VDC			
Initial contac	t resistance	10mΩmax. (1A 2~4VDC)			
Initial dielectric strength		1,500VAC 1 minute			
Initial insulation	on resistance	1,000MΩ min.	. (500VDC)		
Electrical	life	Alternate type	40,000 operations		
(Excluding 8R & 8W)		Momentary type	25,000 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	
m 0	1.1 ∞ 4 0	

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 ON - ON 8P Splash Proof Pushbutton 1.2.3.4 263 ON - (ON)S/D P/C Solder Straight O ON - ON **8Y** Mustang Pushbutton 1.2.3.4 265 ON - (ON)Solder ON - ON 8R-N Soft Touch Pushbutton 1.2 267 ON - (ON)S/D P/C Solder Straight 8W-N Snap-in Pushbutton 1.2 ON - (ON)269 S/D P/C Solder Straight



8R-N

Soft Touch Pushbutton Switches



RoHS compliant

Features -

The **8R** Soft-Touch Pushbutton switches has a unique snap action structure which provides light and soft tactile feel.

The short travel distance (Alternate action: 2.5 mm, Momentary: 1 mm) and the low-profile design make the 8R series suitable for applications where panel space is limited.

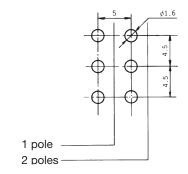
■ Specifications

Detine	Silver plated	3A -	125VAC	(Resistive load)	
Rating	Gold plated	Max.	60mA 30VDC (Resistive Id		
Initial contact registance	Silver plated	ver plated 10mΩ max.(1A 2~4VDC)			
Initial contact resistance	Gold plated	Gold plated 20mΩ max. (5mA 200μVAC)			
Initial Dielectric strength	1,000VAC 1 minute				
Initial insulation resistance	1,000ΜΩ	min.		(500VDC)	
Electrical life	25,000 operations (50,000 operations:Gold plate)				
Operating temperature range	-20°C~+	-85°C	;		
Storage temperature range	-40°C~+	-40°C∼+85°C			
	Altawa ata t		8R101 ■ −N−Z	3.92±1.96N	
Operating force	Alternate ty	/pe	8R201 ■ −N−Z	4.9±2.94 _{1.96} N	
Operating force			8R102 ■ −N−Z	2.94±0.98N	
	Momentaly type		8R202 ■ −N−Z	4.9±1.96 _{0.98} N	

■ Table of Part Numbers —

Terminal style	No. of ploe Switching function	1-pole	2-pole
S/D (Solder)	ON — ON	8R1011−N−Z ★8R1011B−N−Z	★8R2011-N-Z ★8R2011B-N-Z
	ON -(ON)	8R1021-N-Z 8R1021B-N-Z	8R2021−N−Z ★8R2021B−N−Z
P/C	ON — ON	☆8R1012-N-Z ☆8R1012B-N-Z	★8R2012-N-Z ★8R2012B-N-Z
	ON -(ON)	8R1022−N−Z ☆8R1022B−N−Z	8R2022−N−Z ★8R2022B−N−Z

■PC Hole Layouts



■Terminal Styles · · · · Page 259.

■Panel Cut—Out Dimensions



With Locking Ring

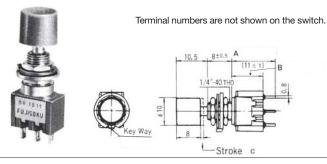
(ON): Momentary.

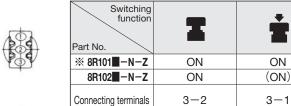
Panel thickness: 2 mm max.



Without Locking Ring

SPDT

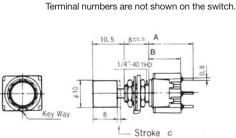




: Please refer to "Table of Part Numbers" on P.267 for a list of full part numbers.

DPDT







Switching function Part No.		Ť
※ 8R201■-N-Z	ON	ON
8R202 ■ −N−Z	ON	(ON)
Connecting terminals	3-2 6-5	3-1 6-4

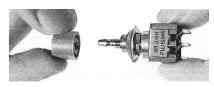
Please refer to "Table of Part Numbers" on P.267 for a list of full part numbers.

■ Standard Accessories (8R & 8R−B)

 $\langle Supplied with switch \rangle$

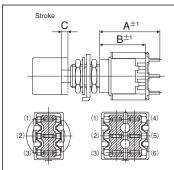
Hex Nut	Lockwasher	Locking Ring	
140008010241	140008030051	140008020062	
1/4"-40 THD	10.2	6.4	
Nickel plated	Zinc plated	Zinc plated	

Color Button Mounting



Snap in the color button on to the actuator.

Part name		Color Button			
Dimension A		φ8 φ10		φ15	
Dimension B		7.5	7.5 8		
A	White	140000481420	140000480082	140000480088	
	Red	140000481421	140000480083	140000480089	
	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	



Terminal Style	Number of poles	Switching Function	Parts No.	Dimension A	Dimension B	Dimension C
S/D	1 pole	ON — ON	8R1011 - N-Z	16.5	12.5	2.5
		ON -(ON)	8R1021 N-Z	15.0	11.0	1.0
	2 poles	ON — ON	8R2011 N-Z	16.5	12.5	2.5
		ON -(ON)	8R2021 N-Z	15.0	11.0	1.0
P/C	1 pole	ON — ON	8R1012 N-Z	18.9	12.5	2.5
		ON - (ON)	8R1022 N-Z	17.4	11.0	1.0
	2 poles	ON — ON	8R2012 N-Z	18.9	12.5	2.5
		ON - (ON)	8R2022 N-Z	17.4	11.0	1.0

■ : Blank for silver-plated contacts. "B" for gold-plated contacts. ■ : Gold plated