8R-N

Soft Touch Pushbutton Switches

FUJISOKU 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

Rating	Silver plated	3A 125VAC (Resistive load)	
	Gold plated	Max. 60mA 30VDC (Resistive load)	
Initial contact resistance	Silver plated	10mΩ max. (1A 2～4VDC)	
	Gold plated	20mΩ max. (5mA 200μVAC)	
Initial Dielectric strength	1,000VAC 1 minute		
Initial insulation resistance	1,000MΩ min. (500VDC)		
Electrical life	25,000 operations (50,000 operations:Gold plate)		
Operating temperature range	−20℃～+85℃		
Storage temperature range	−40℃～+85℃		
Operating force	Alternate type	8R101■−N−Z	3.92 ± 1.96N
		8R201■−N−Z	$4.9\pm^{2.94}_{1.96}$N
	Momentaly type	8R102■−N−Z	2.94 ± 0.98N
		8R202■−N−Z	$4.9\pm^{1.96}_{0.98}$N

■Table of Part Numbers

Terminal style		1−pole	2−pole
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
PC	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

5   φ1.6
4.5
4.5

1 pole
2 poles
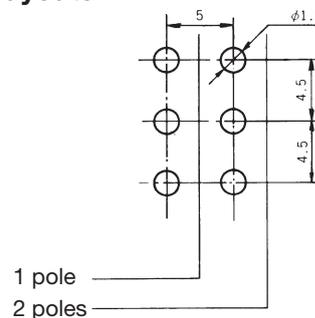
■Terminal Styles ···················· Page 263.

■Panel Cut−Out Dimensions

Panel thickness : 2 mm max.
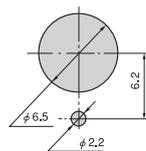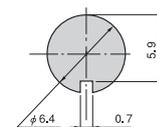
6.2
φ6.5
φ2.2

With **Locking Ring**

5.9
φ6.4   0.7

Without **Locking Ring**

★：Made to order products.   ☆：Semi-standard products.   （ON）：Momentary.

SPDT

Terminal numbers are not shown on the switch.

10.5 8±0.5 A
(11±1) B
1/4"-40 THD
0.8
φ10
8
Key Way
Stroke c

13±1
4, 5, 4. 5
8±1
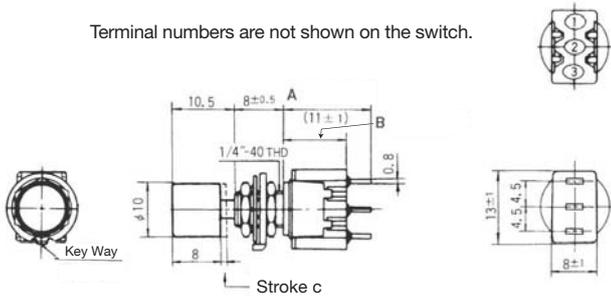
Switching function / Part No.	(maintained)	(momentary down)
※ 8R101■−N−Z	ON	ON
8R102■−N−Z	ON	(ON)
Connecting terminals	3−2	3−1

■ : Please refer to "Table of Part Numbers" on P.271 for a list of full part numbers.

DPDT

Terminal numbers are not shown on the switch.

10.5 8±0.5 A
B
1/4"-40 THD
0.8
φ10
8
Key Way
Stroke c

13±1
4, 5, 4. 5
5
13±1
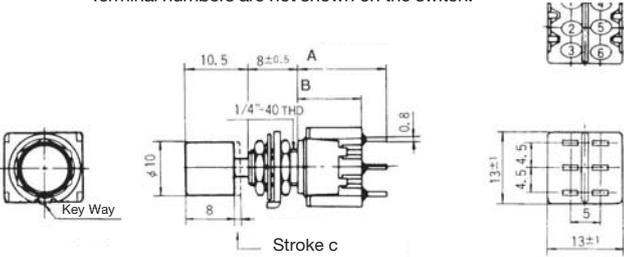
| Switching function / Part No.	(maintained)	(momentary down)
※ 8R201■−N−Z	ON	ON
8R202■−N−Z	ON	(ON)
Connecting terminals	3−2 6−5	3−1 6−4

■ : Please refer to "Table of Part Numbers" on P.271 for a list of full part numbers.

## ■ Standard Accessories (8R & 8R)

《Supplied with switch》

Hex Nut	Lockwasher	Locking Ring
140008010241	140008030051	140008020062
1/4"-40 THD / 8 / 1.5	6.6 / t=0.5 / 10.2 / 1	6.4 / 1 / 12 / 2.1
Nickel plated	Zinc plated	Zinc plated

■ Color Button Mounting
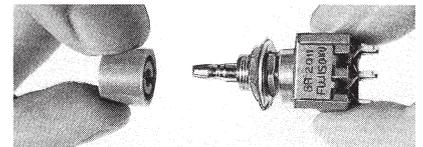
Snap in the color button on to the actuator.

Part name	Color Button		
Dimension A	φ8	φ10	φ15
Dimension B	7.5	8	10
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
Yellow	140000481427	140000480371	140000480372

(Material : PA)

Stroke C A±1 B±1
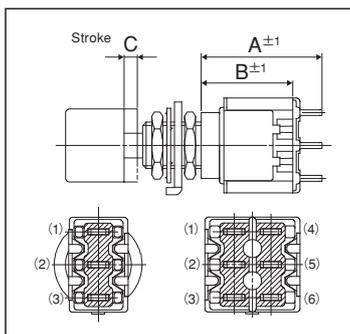
Terminal Style	Number of poles	Switching Function	Parts No.	Dimension A	Dimension B	Dimension C
S/D	1 pole	ON − ON	8R1011■−N−Z	16.5	12.5	2.5
		ON −(ON)	8R1021■−N−Z	15.0	11.0	1.0
	2 poles	ON − ON	8R2011■−N−Z	16.5	12.5	2.5
		ON −(ON)	8R2021■−N−Z	15.0	11.0	1.0
P/C	1 pole	ON − ON	8R1012■−N−Z	18.9	12.5	2.5
		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.   B : Gold plated

● 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. (ON) : Momentary.
Please specify the part number from the above table when ordering.