

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) |
|--|--------------------|---|
| Initial contact resistance | 10 mΩ max. | (1A 2~4 VDC) |
| Initial dielectric strength | 1,500 VAC 1 minute | |
| Initial insulation resistance | 1,000 MΩ min. | (500 VDC) |
| Electrical life (Excluding 8R & 8W) | Alternate type | 40,000 operations |
| | Momentary type | 25,000 operations |
| Operating temperature range | -30°C~+85°C | |
| Storage temperature range | -40°C~+85°C | |

(Excluding 8R & 8W.)

■ Terminal Styles

| Solder (Style:1) | PC Straight (Style:2) |
|------------------|-----------------------|
| | |

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 | UL (※2.) | | | CSA (※3.) | | |
|---------|--------------------|----------|----|----|-----------|----|----|
| | | 8N | 8P | 8Y | 8N | 8P | 8Y |
| 1 pole | 1011-Z ON - ON | ○ | ○ | ○ | ○ | ○ | ○ |
| | 1021-Z ON -(ON) | ○ | ○ | ○ | ○ | ○ | ○ |
| | 1022-Z | ○ | | | ○ | | |
| 2 poles | 2011-Z ON - ON | ○ | ○ | ○ | ○ | ○ | ○ |
| | 2012-Z | ○ | | | ○ | | |
| | 2021-Z ON -(ON) | ○ | ○ | ○ | ○ | ○ | ○ |
| | 2022-Z | ○ | | | ○ | | |
| 3 poles | 3011-Z ON - ON | ○ | | ○ | ○ | | ○ |
| | 3021-Z ON -(ON) | ○ | | ○ | ○ | | ○ |
| 4 poles | 4011-Z ON - ON | ○ | | | ○ | | |
| | 4021-Z ON -(ON) | ○ | | | ○ | | |

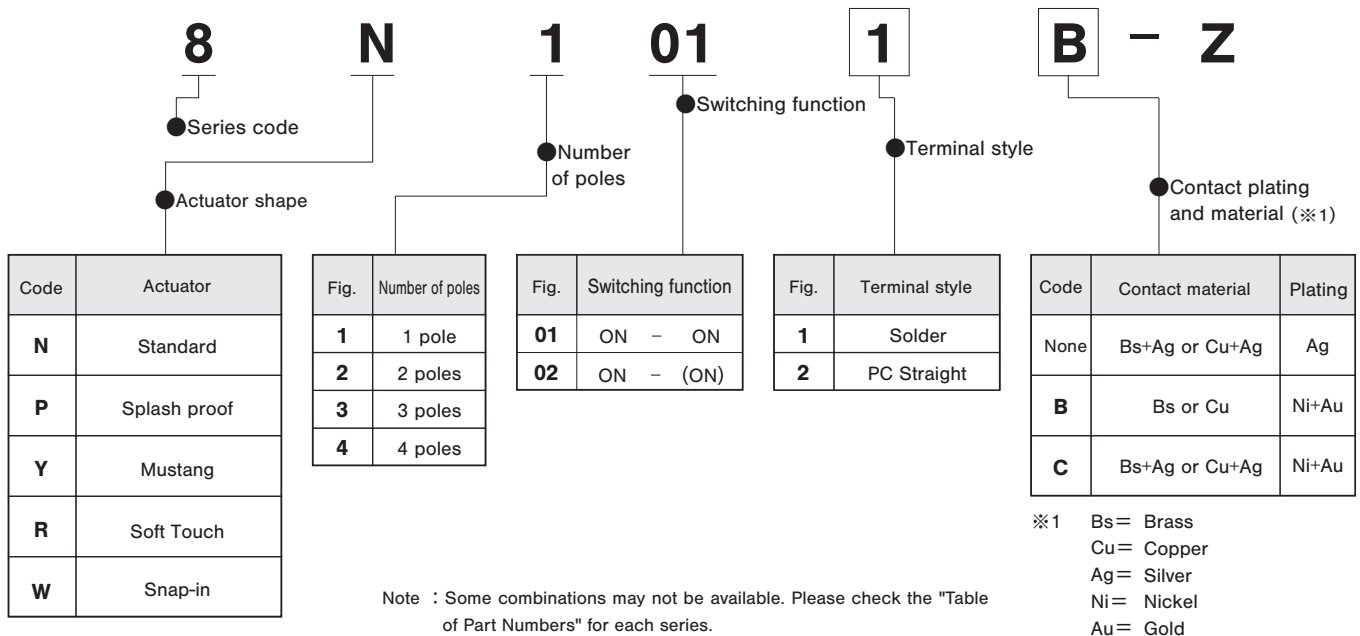
(※2.) UL File No.E43275

(※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 |  | 1.2.3.4 | ON - ON ON - (ON) |   S/D P/C Solder Straight | 239 |
| 8P | Splash Proof Pushbutton |  | 1.2 | ON - ON ON - (ON) |  S/D Solder | 242 |
| 8Y | Mustang Pushbutton |  | 1.2.3 | ON - ON ON - (ON) |  S/D Solder | 245 |
| 8R-N | Soft Touch Pushbutton |  | 1.2 | ON - ON ON - (ON) |   S/D P/C Solder Straight | 248 |
| 8W-N | Snap-in Pushbutton |  | 1.2 | ON - (ON) |   S/D P/C Solder Straight | 251 |

Part Numbering



8Y

Mustang Pushbutton Switches

RoHS Compliant



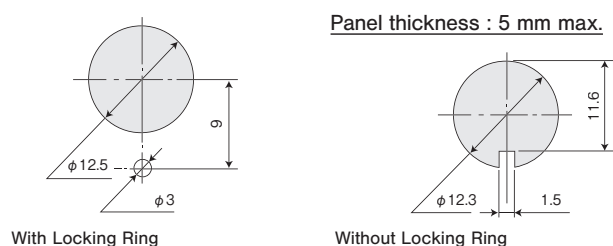
Features

The 8Y series is a sub-miniature pushbutton switch with a larger, rugged actuator and a larger bushing. Suitable for applications where panel space is limited and a larger actuator is needed.

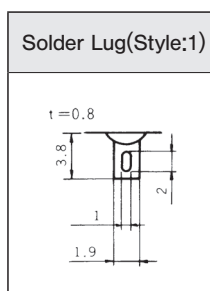
Table of Part Numbers

| Terminal style | No. of pole | | 1 pole | 2 poles | 3 poles |
|----------------|--------------------|--------|-----------------|-------------------|-------------------|
| | Switching function | | | | |
| Solder Lug | ON | - ON | 8Y1011-Z | 8Y2011-Z | 8Y3011-Z |
| | ON | - (ON) | 8Y1021-Z | ☆ 8Y2021-Z | ★ 8Y3021-Z |

Panel Cut-Out Dimensions



Terminal Styles



Standard Accessories

《Supplied with switch》

| Hex Nut | Lockwasher | Locking Ring |
|---------------------|---------------------|---------------------|
| 140008010243 | 140008030055 | 140008020067 |
| | | |
| Nickel plated | Zinc plated | Zinc plated |

Optional Accessories

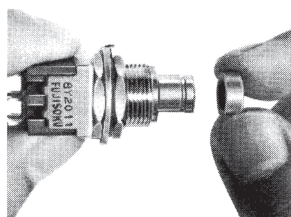
《Sold separately》

| Color Cap | | |
|----------------------|-------|---------------------|
| Dimensions | Color | Part No. |
| Gloss finish | White | 140000470023 |
| | Red | 140000470052 |
| | Black | 140000470051 |
| Vinyl chloride resin | | |

●Specify the Color Cap by part number if Color Cap is desired.

Color Cap Mounting

Snap in the color button on to the actuator.



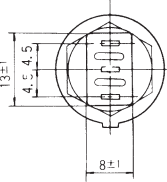
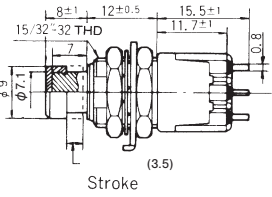
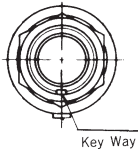
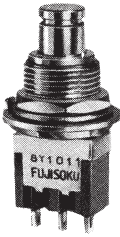
Optional Accessories.



★ : Made to order products.

☆ : Semi-standard products.

(ON) : Momentary.

SPDT



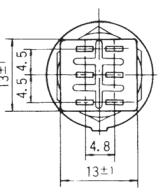
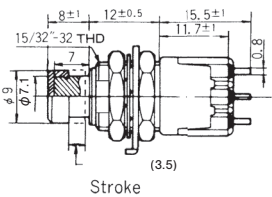


| Switching function |  |  |
|----------------------|---|---|
| Part No. | | |
| ※8Y1011-Z | ON | ON |
| 8Y1021-Z | ON | (ON) |
| Connecting terminals | 2-3 | 2-1 |



※ : The circuit switches each time the switch button is pressed.

S/D

Terminal numbers are not shown on the switch.

DPDT



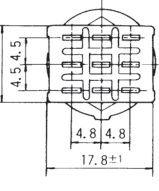
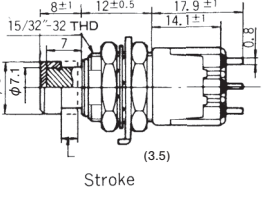
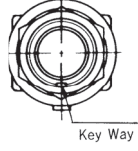

| Switching function |  |  |
|----------------------|---|---|
| Part No. | | |
| ※ 8Y2011-Z | ON | ON |
| ☆8Y2021-Z | ON | (ON) |
| Connecting terminals | 2-3 5-6 | 2-1 5-4 |



※ : The circuit switches each time the switch button is pressed.

S/D

Terminal numbers are not shown on the switch.

3PDT



| Switching function |  |  |
|----------------------|---|---|
| Part No. | | |
| ※ 8Y3011-Z | ON | ON |
| ★8Y3021-Z | ON | (ON) |
| Connecting terminals | 2-3 5-6 8-9 | 2-1 5-4 8-7 |

※ : The circuit switches each time the switch button is pressed.

S/D

Terminal numbers are not shown on the switch.

■Precautions

1. Soldering Specifications

(1) Manual soldering

Device : Solder iron

① 420°C Max. 3 sec. Max.

(2) Auto soldering

② 275°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) 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

Perforated Plastic Bag

25 pcs./pack

