

Washable

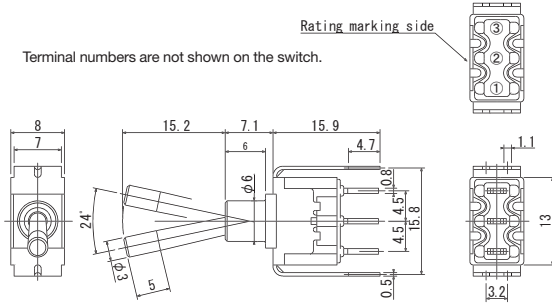
# 8GS : Color Chip Toggle

## SPDT

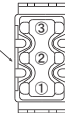
PC Straight



Terminal numbers are not shown on the switch.



Rating marking side



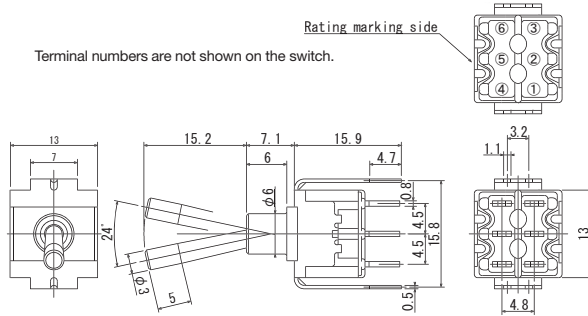
| Part No.             | Switching function              |   |     |
|----------------------|---------------------------------|---|-----|
|                      | Viewed from rating marking side |   |     |
| ★8GS1012-Z           |                                 | — |     |
| Connecting terminals | 2-3                             | — | 2-1 |

## DPDT

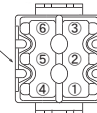
PC Straight



Terminal numbers are not shown on the switch.



Rating marking side



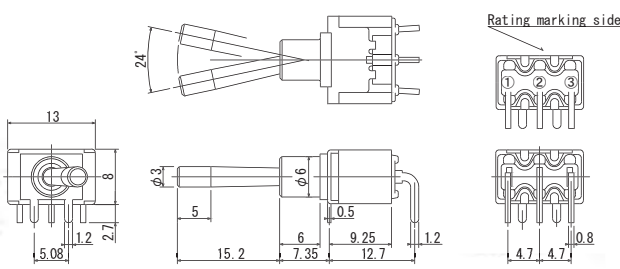
| Part No.             | Switching function              |   |            |
|----------------------|---------------------------------|---|------------|
|                      | Viewed from rating marking side |   |            |
| ★8GS2012-Z           |                                 | — |            |
| Connecting terminals | 2-3<br>5-6                      | — | 2-1<br>5-4 |

## SPDT

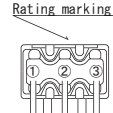
Right Angle



Terminal numbers are not shown on the switch.



Rating marking side



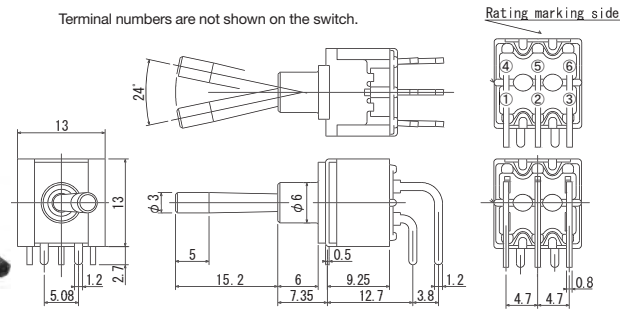
| Part No.             | Switching function              |   |     |
|----------------------|---------------------------------|---|-----|
|                      | Viewed from rating marking side |   |     |
| ▲8GS1014-Z           |                                 | — |     |
| Connecting terminals | 2-3                             | — | 2-1 |

## DPDT

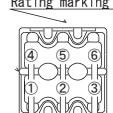
Right Angle



Terminal numbers are not shown on the switch.



Rating marking side



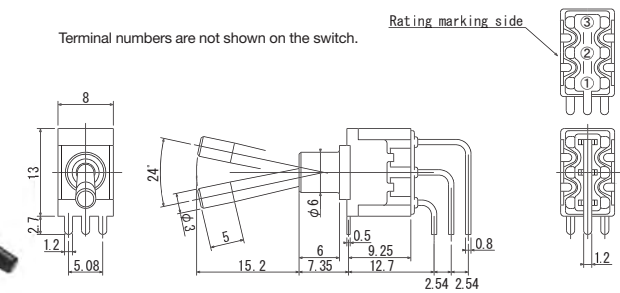
| Part No.             | Switching function              |   |            |
|----------------------|---------------------------------|---|------------|
|                      | Viewed from rating marking side |   |            |
| ▲8GS2014-Z           |                                 | — |            |
| Connecting terminals | 2-3<br>5-6                      | — | 2-1<br>5-4 |

## SPDT

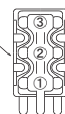
Vertical Mount



Terminal numbers are not shown on the switch.



Rating marking side



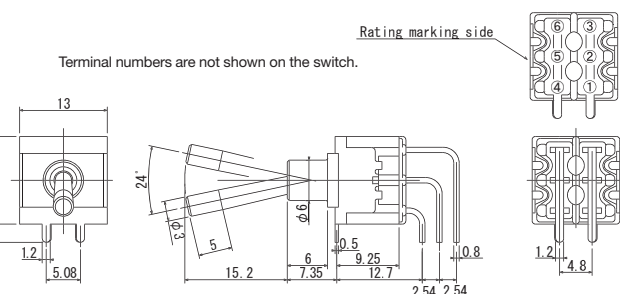
| Part No.             | Switching function              |   |     |
|----------------------|---------------------------------|---|-----|
|                      | Viewed from rating marking side |   |     |
| ▲8GS1016-Z           |                                 | — |     |
| Connecting terminals | 2-3                             | — | 2-1 |

## DPDT

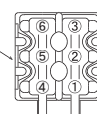
Vertical Mount



Terminal numbers are not shown on the switch.



Rating marking side



| Part No.             | Switching function              |   |            |
|----------------------|---------------------------------|---|------------|
|                      | Viewed from rating marking side |   |            |
| ▲8GS2016-Z           |                                 | — |            |
| Connecting terminals | 2-3<br>5-6                      | — | 2-1<br>5-4 |

(ON) : Momentary.

▲ : Inquiry products.

★ : Made to order products.

PC Hole Layouts

| Terminal style | PC<br>PC Straight | R/A<br>Right Angle | V/M<br>Vertical Mount |
|----------------|-------------------|--------------------|-----------------------|
| 1 pole         |                   |                    |                       |
| 2 poles        |                   |                    |                       |

● Pattern restricted area is black. If a different color is required, specify part number.  
To replace **Color Tip**, remove with a pair of radio pliers.

Precaution (8G, 8GA, 8GD, 8GS)

1. Soldering Specifications

- (1) Manual soldering
  - Device : Solder iron
  - ① 350°C Max. 3 sec. Max.
  - ② 310°C Max. 7 sec. Max.
- (2) Auto soldering
  - Device : Jet wave or dip type
  - ① 270°C Max. 5 sec. Max.
  - ② 250°C Max. 7 sec. Max.

Pre-heating should be done at temperatures below 100°C and within 30 seconds.

3. 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.

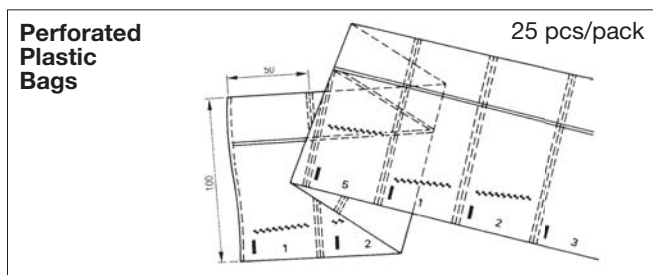
2. Flux Cleaning

- (1) Solvent : Fluorine or Alcohol type.
- (2) Cleaning after soldering should be done after the terminal temperature falls to 90°C or below, or after leaving the switch for five minutes or longer at room temperature.
- (3) Do not use the ultrasonic cleaning.

4. Mounting Accessories

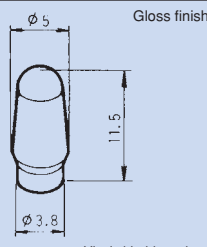
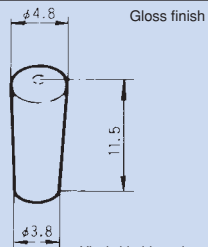
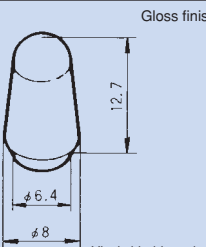
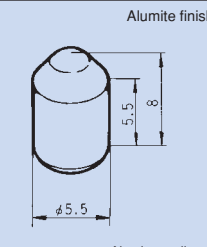
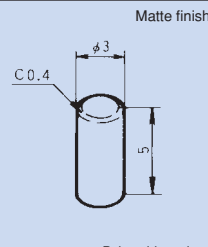
Mount the accessories after soldering and flux cleaning.

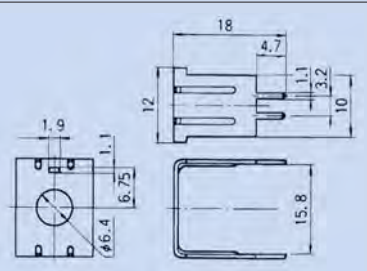
Packaging Specification



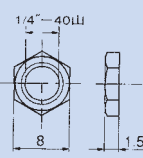
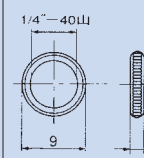
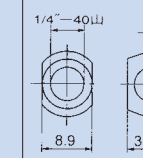
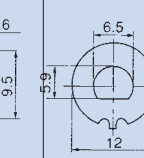
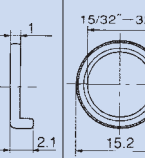
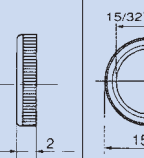
**Optional Accessories**

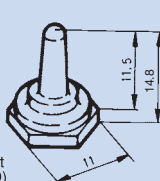
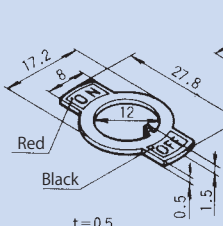
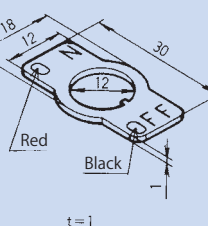
〈Sold separately〉

| Type       | 8A · 8F · 8GA<br>BT   | 8A · 8F · 8GA<br>BT   | 8B  | 8E  | 8S · 8GS  |
|------------|---|---|---|---|---|
| Part Name  | Color Cap   |   |   |   | Color Tip   |
| Dimensions |  |  |  |  |  |
| Silver     | —   | —   | —   | <b>140000470058</b>   | —   |
| White      | <b>140000470030</b>   | <b>140000470038</b>   | <b>140000470063</b>   | —   | <b>140000470118</b>   |
| Red        | <b>140000470098</b>   | <b>140000470100</b>   | <b>140000470108</b>   | <b>140000470060</b>   | <b>140000470119</b>   |
| Black      | <b>140000470031</b>   | <b>140000470039</b>   | <b>140000470064</b>   | <b>140000470059</b>   | <b>140000470112</b>   |
| Gray       | <b>140000470037</b>   | <b>140000470077</b>   | <b>140000470102</b>   | —   | <b>140000470120</b>   |

|            |  |
|------------|--|
| Type       | <b>8A · 8C · 8D · 8J · 8S</b><br>1, 2 poles*                                       |
| Part Name  | <b>Bracket</b>   |
| Part No.   | <b>140000260715</b>  |
| Dimensions |  |

※The Bracket cannot be used with switches with switching functions "10", "11", or "12" (ref. P.388). The size of the housings are different in switches with switching functions "10", "11", and "12" and the Bracket cannot be used.

| Type       | 8A · 8C · 8D · 8E · 8J · 8N · 8S · 8R   |   |  | 8F · 8P   | 8B · 8Y  |  |
|------------|---|---|--|---|--|--|
| Part Name  | Lock Nut  | Round Nut   | Pocketed Nut   | Locking Ring  | Round Nut  | Round Nut  |
| Part No.   | <b>140008010276</b>   | <b>140008010258</b>   | <b>140008010274</b>  | <b>140008020066</b>   | <b>140008010272</b>  | <b>140008010273</b>  |
| Dimensions |  |  |  |  |  |  |
| Finish     | Nickel  | Chromium  | Nickel   | Zinc  | Chromium   |  |

| Type       | 8A   | 8B  |  |
|------------|--|---|--|
| Part Name  | Boot   | Plate   | Plate  |
| Part No.   | <b>140000470422</b>  | <b>140008040021</b>   | <b>140008040025</b>  |
| Dimensions |  |  |  |

## ■ 8 Series Toggles

(ON) : Momentary.

| Poles   | Switching function |                   | UL (※1.) |     |     |     | CSA (※2.) |     |     |     |
|---------|--------------------|-------------------|----------|-----|-----|-----|-----------|-----|-----|-----|
|         |                    |                   | 8G       | 8GA | 8GD | 8GS | 8G        | 8GA | 8GD | 8GS |
| 1 pole  | <b>1012</b>        | ON — ON           | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
|         | <b>1022</b>        | ON — OFF — ON     | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
|         | <b>1042</b>        | (ON) — OFF — (ON) | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
|         | <b>1052</b>        | ON — OFF — (ON)   | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
|         | <b>1062</b>        | ON — (ON)         | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
| 2 poles | <b>2012</b>        | ON — ON           | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
|         | <b>2022</b>        | ON — OFF — ON     | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
|         | <b>2042</b>        | (ON) — OFF — (ON) | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
|         | <b>2052</b>        | ON — OFF — (ON)   | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |
|         | <b>2062</b>        | ON — (ON)         | ○        | ○   | ○   | ○   | ○         | ○   | ○   | ○   |

**UL, CSA** marked switches are available upon request.

(※1.) **UL File No.E43275 FUJISOKU**

(※2.) **CSA File No.LR38341 FUJISOKU**