

8G

Washable



RoHS Compliant

Washable Toggle Switch

■ Features

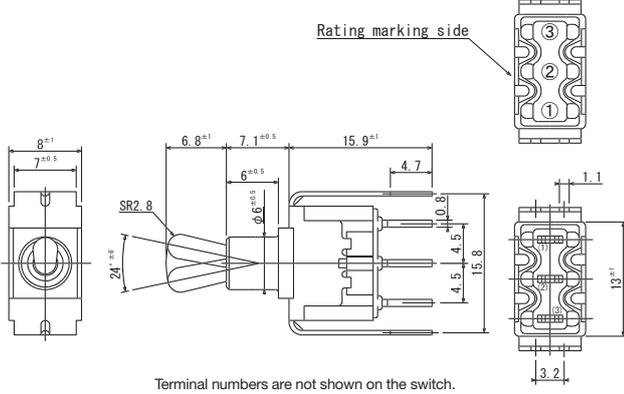
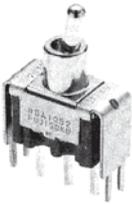
The **8G** Washable Toggle Switch is designed for PC boards and are easily mountable on the board. A PC support terminal is provided for stable mounting. The process-sealed structure allows cleaning after soldering.

■ Specifications

Rating	Max.	6A 125VAC · 3A 250VAC · DC30V 4A	
Initial contact resistance		10mΩ max. (1A 200μVAC)	
Initial dielectric strength		500VAC 1 minute	
Initial Insulation resistance		10,000MΩ min. (250VDC)	
Electrical life	Alternate type	50,000 cycles	
	Momentary type	25,000 cycles	
Operating temperature range		-30~+85°C	
Storage temperature range		-40~+85°C	

8G : Short Toggle

SPDT
PC
Straight PC



Terminal numbers are not shown on the switch.

Part No.	Viewed from rating marking side		
8G1012-Z			
▲ 8G1012C-Z	ON	-	ON
★ 8G1022-Z	ON	OFF	ON
▲ 8G1022C-Z			
8G1042-Z	(ON)	OFF	(ON)
▲ 8G1042C-Z			
★ 8G1052-Z	ON	OFF	(ON)
▲ 8G1052C-Z			
▲ 8G1062-Z	ON	-	(ON)
▲ 8G1062C-Z			
Connecting terminals	2-3	-	2-1

■ PC Hole LayoutsPage 411.

■ Terminal StylesPage 387.

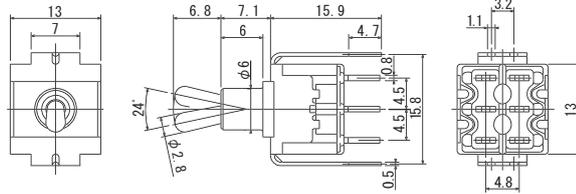
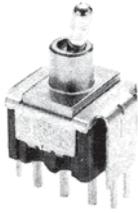
(ON) : Momentary.

▲ : Inquiry products.

★ : Made to order products.

DPDT

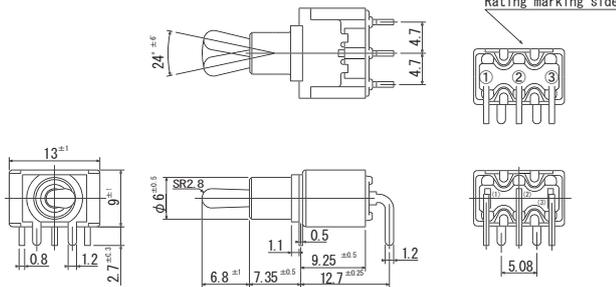
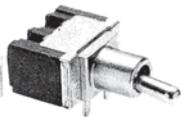
PC
Straight PC



Part No.	Viewed from rating marking side		
8G2012-Z	ON	-	ON
▲ 8G2012C-Z	ON	OFF	ON
▲ 8G2022-Z	ON	OFF	ON
▲ 8G2022C-Z	(ON)	OFF	(ON)
★ 8G2042-Z	ON	OFF	(ON)
▲ 8G2042C-Z	ON	OFF	(ON)
★ 8G2052-Z	ON	OFF	(ON)
▲ 8G2052C-Z	ON	-	(ON)
▲ 8G2062-Z	ON	-	(ON)
▲ 8G2062C-Z	2-3	-	2-1
Connecting terminals	5-6	-	5-4

SPDT

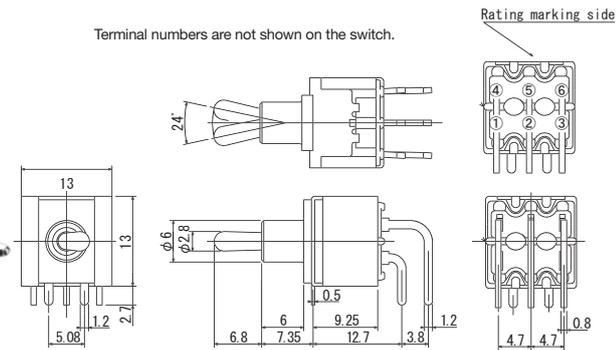
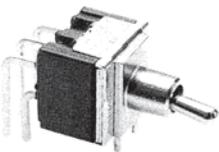
R/A
Right Angle



Part No.	Viewed from rating marking side		
8G1014-Z	ON	-	ON
★ 8G1014C-Z	ON	OFF	ON
★ 8G1024-Z	(ON)	OFF	(ON)
★ 8G1024C-Z	ON	OFF	(ON)
★ 8G1044-Z	ON	OFF	(ON)
★ 8G1044C-Z	ON	OFF	(ON)
★ 8G1054-Z	ON	-	(ON)
▲ 8G1054C-Z	ON	-	(ON)
☆ 8G1064-Z	ON	-	(ON)
★ 8G1064C-Z	2-3	-	2-1
Connecting terminals	5-6	-	5-4

DPDT

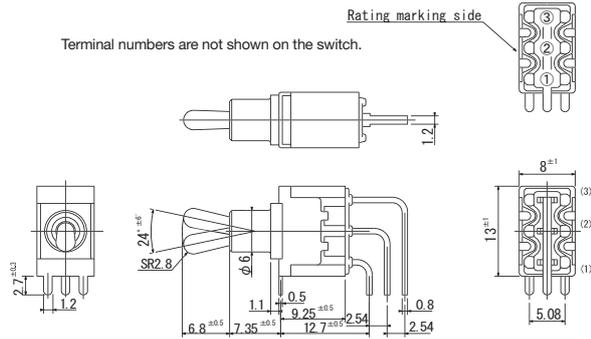
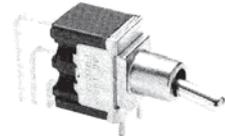
R/A
Right Angle



8G2014-Z	ON	-	ON
▲ 8G2014C-Z	ON	OFF	ON
★ 8G2024-Z	(ON)	OFF	(ON)
▲ 8G2024C-Z	ON	OFF	(ON)
▲ 8G2044-Z	ON	OFF	(ON)
▲ 8G2044C-Z	ON	OFF	(ON)
▲ 8G2054-Z	ON	-	(ON)
▲ 8G2054C-Z	ON	-	(ON)
▲ 8G2064-Z	2-3	-	2-1
▲ 8G2064C-Z	5-6	-	5-4
Connecting terminals			

SPDT

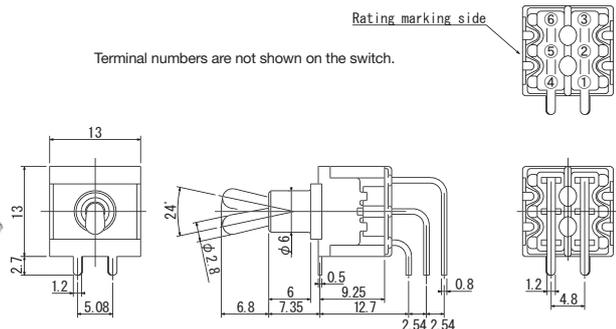
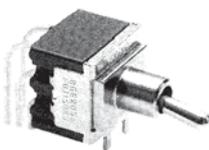
V/M
Vertical Mount



Part No.	Viewed from rating marking side		
8G1016-Z	ON	-	ON
▲ 8G1016C-Z	ON	OFF	ON
★ 8G1026-Z	(ON)	OFF	(ON)
▲ 8G1026C-Z	ON	OFF	(ON)
★ 8G1046-Z	ON	OFF	(ON)
▲ 8G1046C-Z	ON	OFF	(ON)
★ 8G1056-Z	ON	-	(ON)
▲ 8G1056C-Z	ON	-	(ON)
★ 8G1066-Z	ON	-	(ON)
▲ 8G1066C-Z	2-3	-	2-1
Connecting terminals	5-6	-	5-4

DPDT

V/M
Vertical Mount



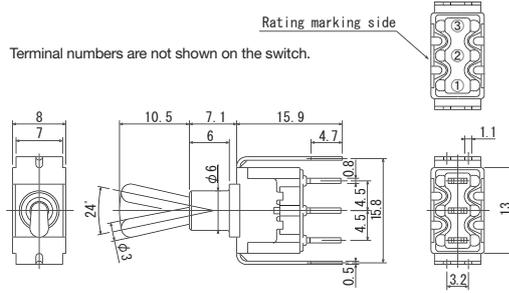
8G2016-Z	ON	-	ON
▲ 8G2016C-Z	ON	OFF	ON
▲ 8G2026-Z	(ON)	OFF	(ON)
▲ 8G2026C-Z	ON	OFF	(ON)
▲ 8G2046-Z	ON	OFF	(ON)
▲ 8G2046C-Z	ON	OFF	(ON)
▲ 8G2056-Z	ON	-	(ON)
▲ 8G2056C-Z	ON	-	(ON)
▲ 8G2066-Z	2-3	-	2-1
▲ 8G2066C-Z	5-6	-	5-4
Connecting terminals			

Washable

8GA : Standard Toggle

SPDT

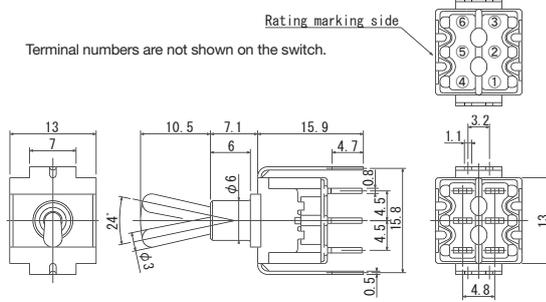
PC
Straight PC



Part No.	Viewed from rating marking side		
8GA1012-Z	ON	-	ON
★8GA1022-Z	ON	OFF	ON
Connecting terminals	2-3	-	2-1

DPDT

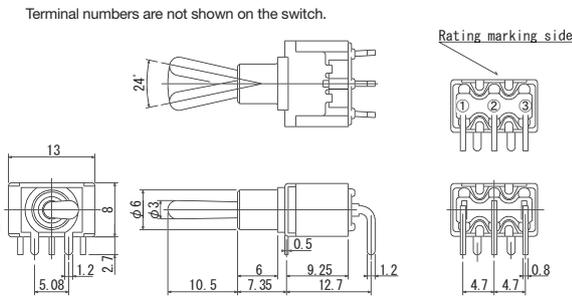
PC
Straight PC



Part No.	Viewed from rating marking side		
★8GA2012-Z	ON	-	ON
★8GA2022-Z	ON	OFF	ON
Connecting terminals	2-3 5-6	-	2-1 5-4

SPDT

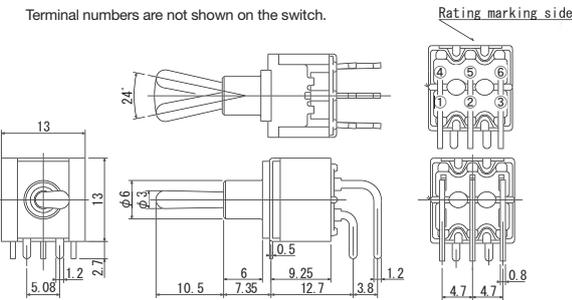
R/A
Right Angle



Part No.	Viewed from rating marking side		
8GA1014-Z	ON	-	ON
▲8GA1024-Z	ON	OFF	ON
Connecting terminals	2-3	-	2-1

DPDT

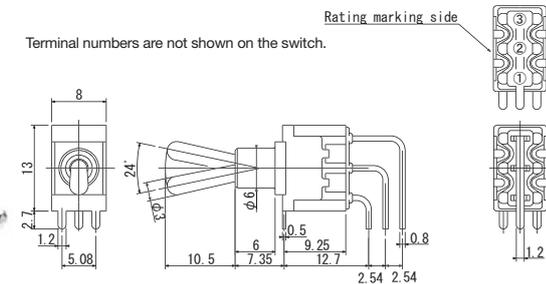
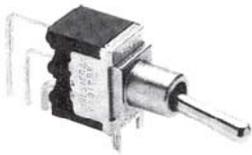
R/A
Right Angle



Part No.	Viewed from rating marking side		
★8GA2014-Z	ON	-	ON
★8GA2024-Z	ON	OFF	ON
Connecting terminals	2-3 5-6	-	2-1 5-4

SPDT

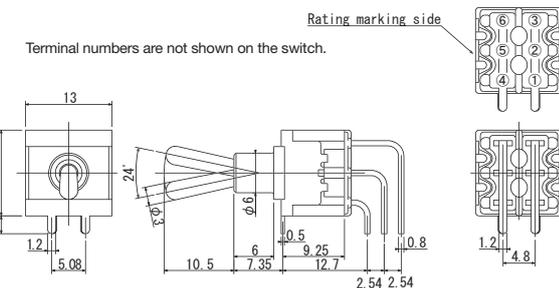
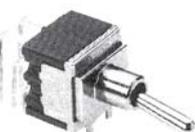
V/M
Vertical Mount



Part No.	Viewed from rating marking side		
☆8GA1016-Z	ON	-	ON
▲8GA1026-Z	ON	OFF	ON
Connecting terminals	2-3	-	2-1

DPDT

V/M
Vertical Mount



Part No.	Viewed from rating marking side		
★8GA2016-Z	ON	-	ON
▲8GA2026-Z	ON	OFF	ON
Connecting terminals	2-3 5-6	-	2-1 5-4

▲ : Inquiry products. ☆ : Semi-standard products. ★ : Made to order products. · Optional accessories (Color Caps) for 8GA series are shown on P.415.

(ON) : Momentary.

Washable

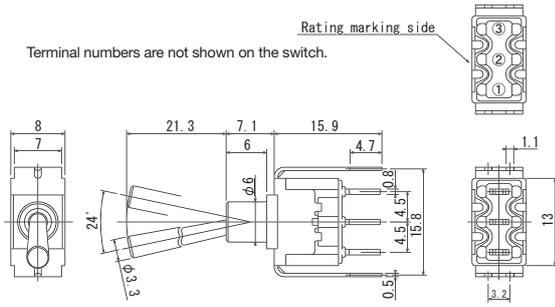
8GD : Long Toggle

SPDT

PC
Straight PC



Terminal numbers are not shown on the switch.



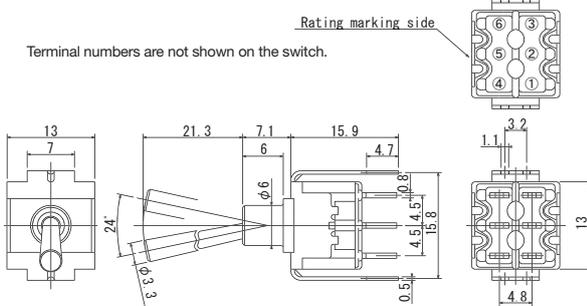
Part No. / Switching function	Viewed from rating marking side		
★8GD1012-Z	ON	—	ON
▲8GD1022-Z	ON	OFF	ON
Connecting terminals	2-3	—	2-1

DPDT

PC
Straight PC



Terminal numbers are not shown on the switch.



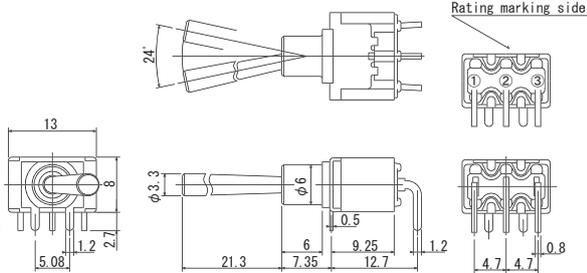
Part No. / Switching function	Viewed from rating marking side		
★8GD2012-Z	ON	—	ON
Connecting terminals	2-3 5-6	—	2-1 5-4

SPDT

R/A
Right Angle



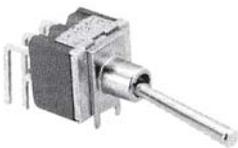
Terminal numbers are not shown on the switch.



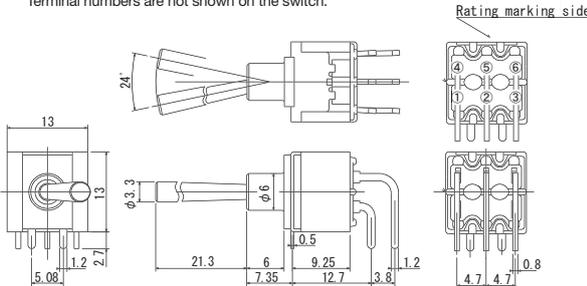
Part No. / Switching function	Viewed from rating marking side		
★8GD1014-Z	ON	—	ON
▲8GD1024-Z	ON	OFF	ON
Connecting terminals	2-3	—	2-1

DPDT

R/A
Right Angle



Terminal numbers are not shown on the switch.



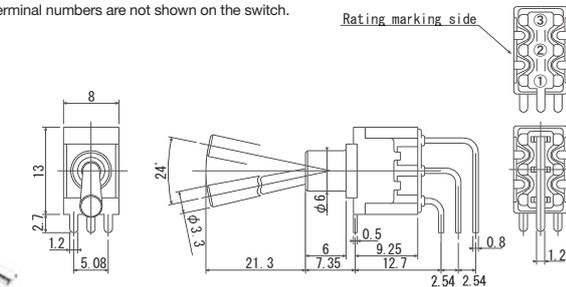
Part No. / Switching function	Viewed from rating marking side		
★8GD2014-Z	ON	—	ON
Connecting terminals	2-3 5-6	—	2-1 5-4

SPDT

V/M
Vertical Mount



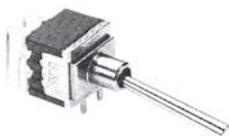
Terminal numbers are not shown on the switch.



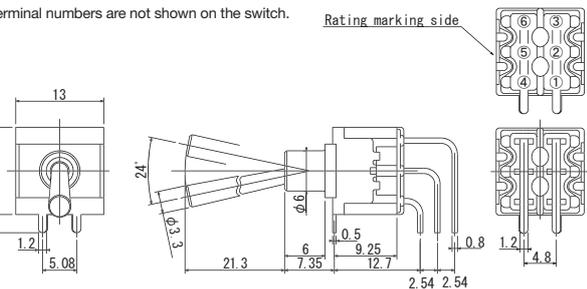
Part No. / Switching function	Viewed from rating marking side		
★8GD1016-Z	ON	—	ON
▲8GD1026-Z	ON	OFF	ON
Connecting terminals	2-3	—	2-1

DPDT

V/M
Vertical Mount



Terminal numbers are not shown on the switch.



Part No. / Switching function	Viewed from rating marking side		
▲8GD2016-Z	ON	—	ON
Connecting terminals	2-3 5-6	—	2-1 5-4

★ : Made to order products.

▲ : Inquiry products.

(ON) : Momentary.

Washable

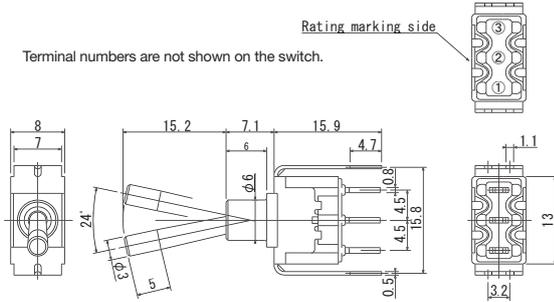
8GS : Color Chip Toggle

SPDT

PC
Straight PC



Terminal numbers are not shown on the switch.



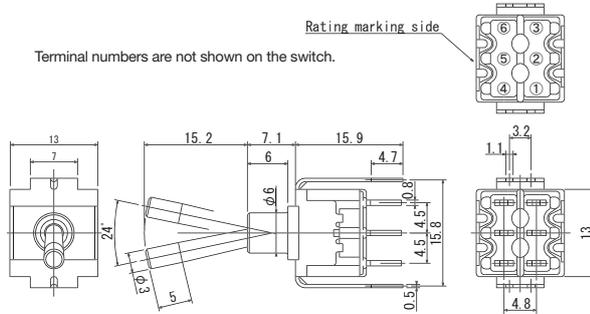
Part No.	Switching function		
	Viewed from rating marking side		
★8GS1012-Z		—	
Connecting terminals	2-3	—	2-1

DPDT

PC
Straight PC



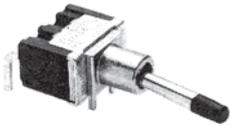
Terminal numbers are not shown on the switch.



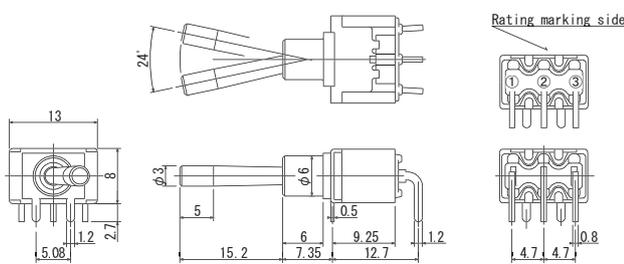
Part No.	Switching function		
	Viewed from rating marking side		
★8GS2012-Z		—	
Connecting terminals	2-3 5-6	—	2-1 5-4

SPDT

R/A
Right Angle



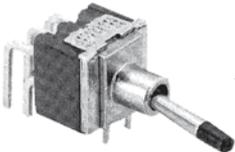
Terminal numbers are not shown on the switch.



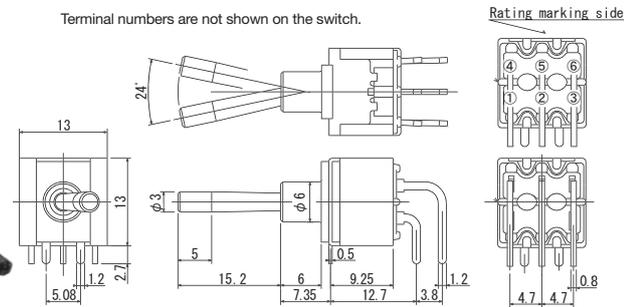
Part No.	Switching function		
	Viewed from rating marking side		
▲8GS1014-Z		—	
Connecting terminals	2-3	—	2-1

DPDT

R/A
Right Angle



Terminal numbers are not shown on the switch.



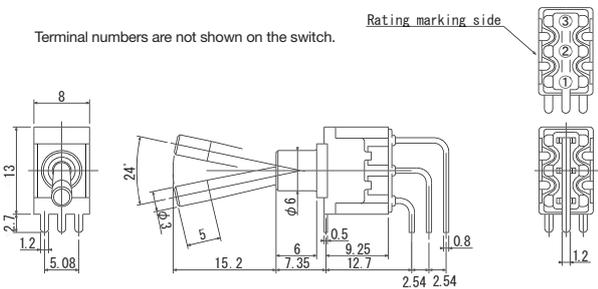
Part No.	Switching function		
	Viewed from rating marking side		
▲8GS2014-Z		—	
Connecting terminals	2-3 5-6	—	2-1 5-4

SPDT

V/M
Vertical Mount



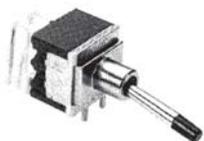
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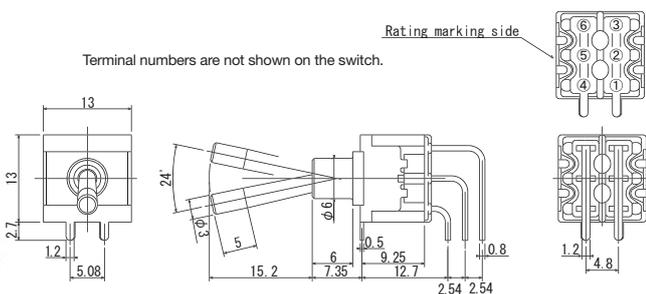
Part No.	Switching function		
	Viewed from rating marking side		
▲8GS1016-Z		—	
Connecting terminals	2-3	—	2-1

DPDT

V/M
Vertical Mount



Terminal numbers are not shown on the switch.



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

(ON) : Momentary.

▲ : Inquiry products.

★ : Made to order products.

PC Hole Layouts

Terminal style	PC Straight PC	R/A Right Angle	V/M 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

