

# STANDARD TOGGLE SWITCH 8A

## FEATURES

The 8A Standard Toggle Switch is the most basic of all the miniature switches of 8 series. It is a high quality switch, which is suitable for all sorts of applications, and might be called the prototype of miniature switches.

## APPLICATIONS (8A, 8B, 8C, 8D, 8E)

- Communications Equipment
- Computers and Peripheral Equipment
- Measuring Equipment
- Medical Equipment
- Automotive Equipment

Also useful in a wide range of other applications from industrial to consumer equipment.

RoHS compliant

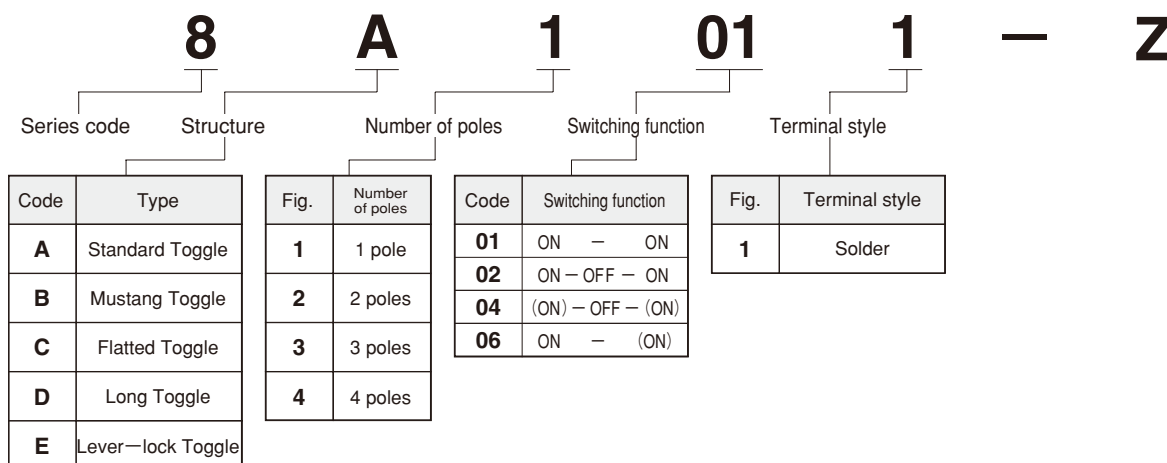


## SPECIFICATIONS (8A, 8B, 8C, 8D, 8E in common)

Specifications		①	②
Contact specs.		Silver	Silver
Rating	Max.	AC125V 6A AC250V 3A	AC125V 6A
	Min.	AC/DC5V 10mA	AC/DC5V 10mA
Initial contact resistance		10mΩMax. (DC2~4V 1A)	10mΩMax. (DC2~4V 1A)
Initial dielectric strength		AC1500V 1minute	AC1000V 1minute
Initial insulation resistance		1000MΩMin. (DC500V)	
Electrical life	Alternate type	50,000cycles	
	Momentary type	25,000cycles	
Operating temperature range		-20~+85°C	
Storage temperature range		-40~+85°C	

Terminal style	Solder
Number of poles	
1-pole	①
2-pole	①
3-pole	②
4-pole	②

## PART NUMBERING (8A, 8B, 8C, 8D, 8E)



Note : There are such Part Numbers made by the above part numbering that are not available. Please refer to the Table of Part Numbers for availability.

# 8A STANDARD TOGGLE SWITCH

## ■ TABLE OF PART NUMBERS

Term. style	Number of poles		1—pole	2—pole	3—pole	4—pole
	Switching function					
Solder S/D	ON	— ON	☞ 8A1011—Z	☞ 8A2011—Z	☞ 8A3011—Z	☞ 8A4011—Z
	ON	— OFF — ON	☞ 8A1021—Z	☞ 8A2021—Z	———	———
	(ON)	— OFF — (ON)	☞ 8A1041—Z	☆ ☞ 8A2041—Z	———	———
	ON	— (ON)	☞ 8A1061—Z	☆ ☞ 8A2061—Z	———	———

☆ : Quasi-standard items    ★ : Made-to-order items.

## ■ OPTIONAL ACCESSORIES

Color Cap <span style="float: right;">(PVC resin)</span>					
Dimensions	Color	Part.No.	Dimensions	Color	Part.No.
	White	140000470030		White	140000470038
	Red	140000470098		Red	140000470100
	Black	140000470031		Black	140000470039
	Gray	140000470037		Gray	140000470077
	Green	140000470105		Green	140000470107
	Blue	140000470099		Blue	140000470101
	Orange	140000470090		Orange	140000470091
	Yellow	140000470033		Yellow	140000470041

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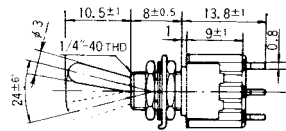
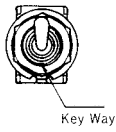
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※Please contact us if you can't find your preferable combination in the table of part numbers.

# 8A STANDARD TOGGLE SWITCH

## OUTLINE DIMENSIONS

### SPDT



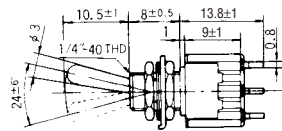
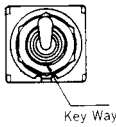
Terminal number not shown on box.



Switching function	Key way	Key way	Key way
Part No.			
<b>8A1011-Z</b>	ON	—	ON
<b>8A1021-Z</b>	ON	OFF	ON
<b>8A1041-Z</b>	(ON)	OFF	(ON)
<b>8A1061-Z</b>	ON	—	(ON)
Connecting terminals	2-3	—	2-1

(ON) : Momentary.

### DPDT



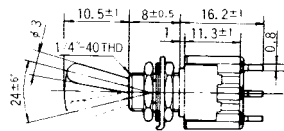
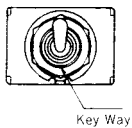
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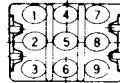
Switching function	Key way	Key way	Key way
Part No.			
<b>8A2011-Z</b>	ON	—	ON
<b>8A2021-Z</b>	ON	OFF	ON
<b>8A2041-Z</b>	(ON)	OFF	(ON)
<b>8A2061-Z</b>	ON	—	(ON)
Connecting terminals	2-3 5-6	—	2-1 5-4

(ON) : Momentary.

### 3PDT

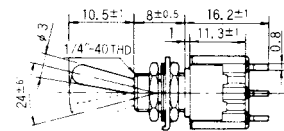
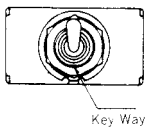
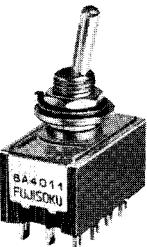


Terminal number not shown on box.

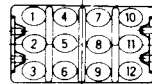


Switching function	Key way	Key way	Key way
Part No.			
<b>8A3011-Z</b>	ON	—	ON
Connecting terminals	2-3 5-6 8-9	—	2-1 5-4 8-7

### 4PDT



Terminal number not shown on box.



Switching function	Key way	Key way	Key way
Part No.			
<b>8A4011-Z</b>	ON	—	ON
Connecting terminals	2-3 5-6 8-9 11-12	—	2-1 5-4 8-7 11-10

# 8A STANDARD TOGGLE SWITCH

## ■ PRECAUTIONS (8A, 8B, 8C, 8D, 8E, 8SS in common)

### 1. Soldering

- (1) Hand soldering  
Device : Solder iron  
① 420°C Max. 3 sec. Max.

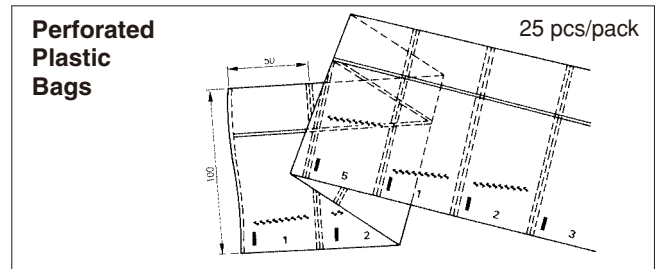
### 2. Flux Cleaning

- (1) Solvent : Fluorine or Alcohol type.
- (2) When PC board cleaning is required, brushing on the soldering face shall be provided so that the Eight (without 8GA) series is not exposed to the cleaning solution.
- (3) Cleaning shall be made when terminal temperature falls to 90°C or lower. Or, leave the switch at normal temperature for 5 minutes or longer, before cleaning.

### 3. Installations

- After switch installation, avoid placing the device in a position in which its weight will be placed on the switch button.

## ■ PACKAGING SPECIFICATION



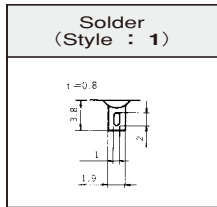
# 8A

## STANDARD TOGGLE SWITCH

### ■ PANEL CUT-OUT DIMENSIONS (8A, 8B, 8C, 8D, 8E in common)

Series	8A·8D	8C	8E	8A·8D	8C	8E	8B		
Panel thickness	2.5 mm Max.	2.4 mm Max.	1.5 mm Max.	3.5 mm Max.	3.4 mm Max.	2.5 mm Max.	5.9 mm Max.	6.9 mm Max.	
Dimensions	<p>With Locking Ring</p>			<p>Without Locking Ring</p>			<p>With Locking Ring</p>		<p>Without Locking Ring</p>

### ■ TERMINAL STYLES (8A, 8B, 8C, 8D, 8E in common)



### ■ STANDARD ACCESSORIES (8A, 8B, 8C, 8D, 8E in common)

<Q'ty/switch>

Part Name	Dress Nut	Hex Nut	Lockwasher	Locking Ring	Hex Nut	Lockwasher	Locking Ring
Part No.	140008010253	140008010241	140008030051	140008020062	140008010243	140008030055	140008020065
Dimensions							
Finish	Nickel plated		Zinc plated		Nickel plated	Zinc plated	
8A		2	1	1			
8B					2	1	1
8C	1	1	1	1			
8D		2	1	1			
8E		2	1	1			

● The number in the table above indicates the quantity of standard accessories attached to each Part No.