

General-purpose type switch applicable to a wide range of electronic devices



Detector

Slide

Push

Rotary

Power

Dual-In-line Package Type



### Typical Specifications

Items		Specifications
Rating (max.)/(min.) (Resistive load)		0.25A 30V DC / 50μA 3V DC
Contact resistance (Initial / After operating life)		20mΩ max. / 60mΩ max.
Rotational torque	Shorting	80±30mN·m
	Non-shorting	70±30mN·m
Operating life	Without load	10,000 cycles
	With load	10,000 cycles (0.25A 30V DC)

### Product Line

Poles	Positions	Changeover angle	Changeover timing	Actuator configuration	Actuator length (mm)	Minimum order unit (pcs.)		Product No.
						Japan	Export	
1	12 Endless	30±3°	Shorting	Round shaft with groove	15	60	240	<b>SRRM1C6200</b>
					20			<b>SRRM1C5400</b>
2	5 6		Shorting	Round shaft with groove	15			<b>SRRM1C7800</b>
					20			<b>SRRM254700</b>
3	4	Shorting	Flat	20	<b>SRRM262400</b>			
					<b>SRRM264300</b>			
4	3		Round shaft with groove	18-tooth serration	<b>SRRM342800</b>			
					<b>SRRM433700</b>			

### Notes

- ※1 Non-shorting type requires external wiring of common terminals.
- All the axis are die casting shafts.

### Packing Specifications

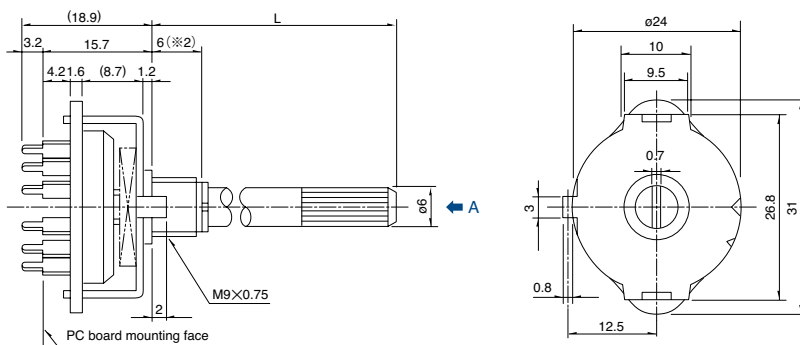
Tray

Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
60	240	400×270×270

### Dimensions

Unit:mm

Style



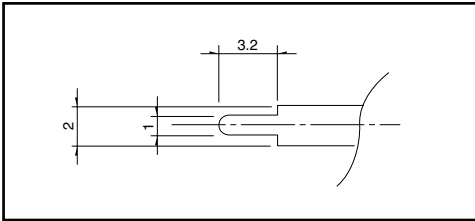
### Note

※2 Round-shaft with groove (shaft length 20mm) type are 8mm length.

Refer to P.144 for shaft configurations.  
Refer to P.148 for soldering conditions.

Terminal Configuration

Unit:mm



Standard Circuit Diagram

Shorting Circuit Diagram

Unit:mm

	1-pole, 12-position	2-pole, 5-position	2-pole, 6-position	3-pole, 4-position	4-pole, 3-position
Circuit diagram					
PC board mounting hole dimensions (Viewed from the direction A)					

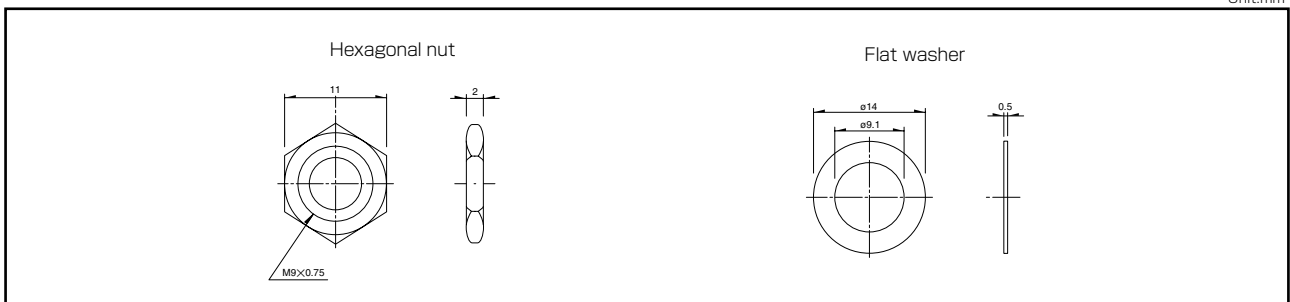
Non Shorting Circuit Diagram

Unit:mm

	Circuit diagram	PC board mounting hole dimensions (Viewed from the direction A)
1-pole, 12-position		

Attached Parts

Unit:mm



Notes

- The mark in the above table indicate a Lug position with the shaft turned fully counterclockwise when viewed from direction A of the diagrams.
- Note that the location of C terminal differs depending on the number of positions.
- External wiring is required if specified in the above diagrams.

Detector

Slide

Push

Rotary

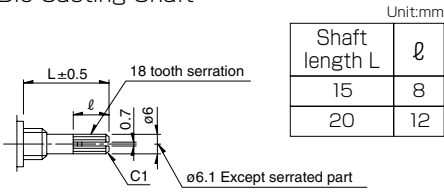
Power

Dual-In-line Package Type

## 18-tooth Serration Shaft

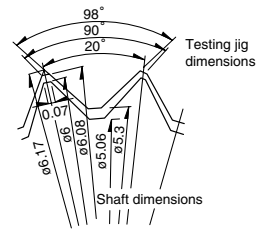
The shaft shows the position in which it is turned fully counterclockwise.

### Die Casting Shaft



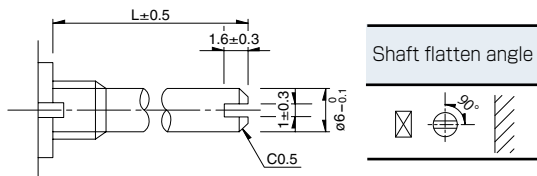
### Details About Serration

- (1) The mold dimensions of standard serration and the dimensions of test jigs are as shown in the figure at left.
- (2) Position of the serration bottom  
When the shaft is turned fully counterclockwise, the position of the serration bottom is on the AA line.
- (3) Slitting angle  
The slitting angle (position) is not specified.



## Round Shaft with Groove

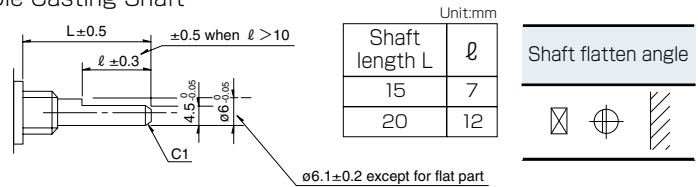
The shaft shows the position in which it is turned fully counterclockwise.



## Flat Shaft

The shaft shows the position in which it is turned fully counterclockwise.

### Die Casting Shaft



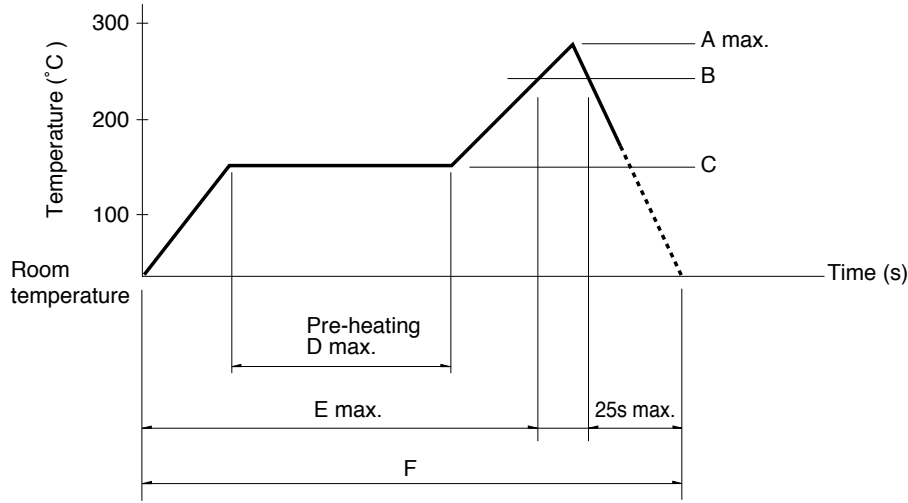
### Note

SRRM Series are based on (panel lug).

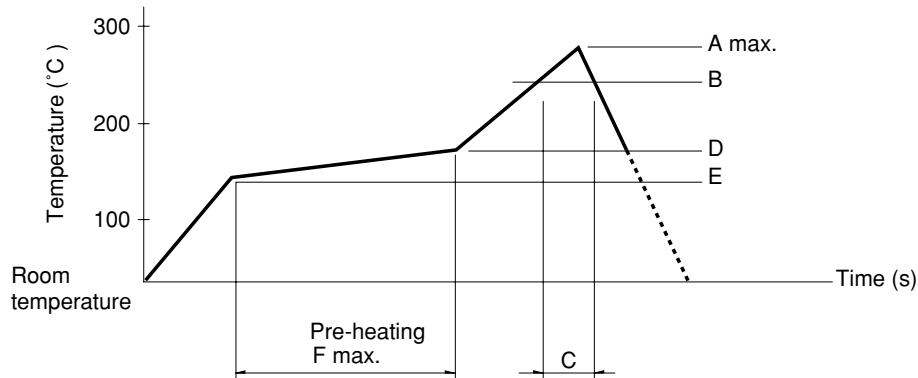


## Example of Reflow Soldering Condition

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple  $\phi 0.1$  to  $0.2$  CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
3. Temperature profile



Series (Reflow type)	A (°C) 3s max.	B (°C)	C (°C)	D (s)	E (s)	F (s)
<b>SRBQ</b>	250	200	150±5	80 to 100	—	—



Series (Reflow type)	A (°C) 3s max.	B (°C)	C (s)	D (°C)	E (°C)	F (s)
<b>SRBD</b>	260	230	40	180	150	120

- Notes**
1. The condition mentioned above is the temperature on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.
  2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

## Reference for Hand Soldering

Series	Soldering temperature	Soldering time
<b>SRBQ, SRBM, SRBV, SRRM, SRRN</b>	350±10°C	3+1/0s
<b>SRBQ (Reflow type)</b>	350±5°C	3s max.

## Reference for Dip Soldering

(For PC board terminal types)

Series	Items		Dip soldering	
	Preheating temperature	Preheating time	Soldering temperature	Duration of immersion
<b>SRBM</b>	100°C max.	60s max.	260±5°C	5s max.
<b>SRBV, SRRM, SRRN</b>	—	—	260±5°C	10±1s
<b>SRBQ</b>	—	—	260±5°C	5±1s