

SSSS9 5(H)mm, 2mm-travel Type

Mid-size general purpose type well established for user friendliness



Detector

Slide

Push

Rotary

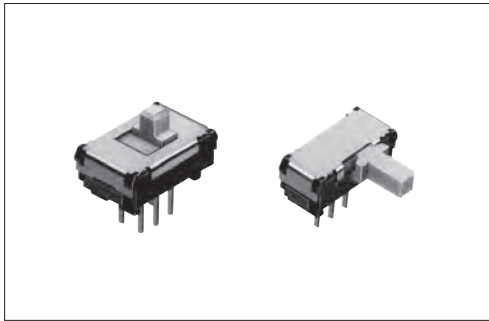
Power

Dual-in-line
Package Type

Small size
General Use Type

Big size
General Use Type

Typical Specifications



Items		Specifications	
Rating (max.)/(min.) (Resistive load)		0.1A 12V DC / 1mA 5V DC	
Contact resistance (Initial performance / After lifetime)		30mΩ max. / 80mΩ max.	
Operating force		2-position	3-position
		3±1.5N	a, c → b 2±1N b → a, c 3±1.5N
Operating life	Without load	10,000 cycles	
	With load	10,000 cycles (0.1A 12V DC)	

Product Line

Travel (mm)	Actuator direction	Actuator length (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum order unit (pcs.)		Products No.	Drawing No.		
								Japan	Export				
2	Vertical	2	1	2	Standard	Non shorting	Manual, Dip	1,000	5,000	SSSS912000	1		
				Snap-in (t1.6)	SSSS910400					2			
				Standard	SSSS919500					3			
			Snap-in (t1.6)	SSSS918500	4								
			2	2	Standard	Not specified				800	4,000	SSSS922000	5
			Snap-in (t1.6)	SSSS921800	6								
		1	2	Standard	Non shorting	1,000		5,000	SSSS912500			1	
		Snap-in (t1.6)	SSSS910800	2									
		Standard	SSSS919800	3									
		Snap-in (t1.6)	SSSS918700	4									
		2	2	Standard	Non shorting				800	4,000	SSSS922500	5	
		Snap-in (t1.6)	SSSS923200	6									
	1	3	Standard	Not specified	1,000	5,000	SSSS920600	7					
	Snap-in (t1.6)	SSSS916900	8										
	Standard	SSSS915001	9										
	2	2	Standard	Non shorting			800	4,000			SSSS91B900	10	
	Snap-in (t1.6)	SSSS926400	12										
	Standard	SSSS928500	14										
	1	2	Standard	Non shorting	1,000	5,000			SSSS916400	8			
	Snap-in (t1.6)	SSSS914503	9										
	Standard	SSSS91B600	10										
	1	3	Standard	Not specified			1,000	5,000	SSSS91A601	11			
	Snap-in (t1.6)	SSSS925800	12										
	Standard	SSSS923802	13										
2	2	Standard	Non shorting	800	4,000	SSSS928200			14				
Snap-in (t1.6)	SSSS925701	15											
Standard	SSSS928200	14											
2	3	Standard	Not specified			800	4,000	SSSS925701	15				
Snap-in (t1.6)	SSSS925701	15											
Horizontal	2	2	1					2	Standard	Non shorting	1,000	5,000	SSSS916900
Snap-in (t1.6)				SSSS915001	9								
Standard				SSSS91B900	10								
Snap-in (t1.6)			SSSS926400	12									
2			2	Standard	Non shorting	800	4,000	SSSS928500	14				
Snap-in (t1.6)			SSSS916400	8									
Standard		SSSS914503	9										
1		3	Standard	Not specified	1,000			5,000	SSSS91B600	10			
Snap-in (t1.6)		SSSS91A601	11										
Standard		SSSS925800	12										
2		2	Standard	Non shorting		800	4,000		SSSS923802	13			
Snap-in (t1.6)		SSSS928200	14										
Standard	SSSS925701	15											
1	3	Standard	Not specified	800	4,000			SSSS928200	14				
Snap-in (t1.6)	SSSS925701	15											

■ Packing Specifications

Bulk

Products No.	Number of packages (pcs.)		Export package measurements (mm)
	1 case / Japan	1 case / export packing	
SSSS921800, SSSS923200, SSSS920600, SSSS928500, SSSS928200, SSSS925701	800	4,000	400×270×290
SSSS912000, SSSS910800, SSSS926400, SSSS910400, SSSS919800, SSSS916400, SSSS919500, SSSS918700, SSSS914503, SSSS918500, SSSS922500, SSSS91B600, SSSS922000, SSSS916900, SSSS91A601, SSSS912500, SSSS915001, SSSS925800, SSSS91B900, SSSS923802	1,000	5,000	

■ Dimensions

Vertical Actuator Type

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from direction A)
1	<p>1-pole, 2-position Standard type</p>	
2	<p>1-pole, 2-position Snap-in type</p>	
3	<p>1-pole, 3-position Standard type</p>	

Detector

Slide

Push

Rotary

Power

Dual-in-line Packages Type

Small size General Use Type

Big size General Use Type

SSSS9 5(H)mm, 2mm-travel Type

■ Dimensions

Vertical Actuator Type

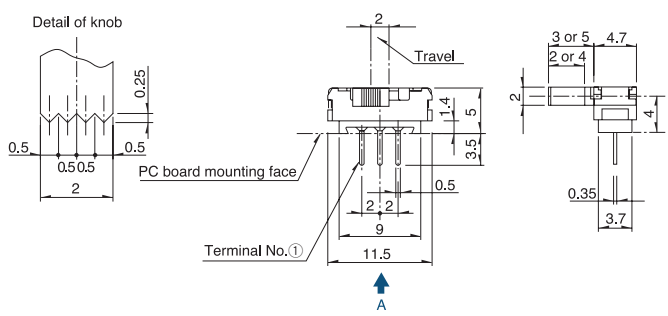
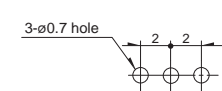
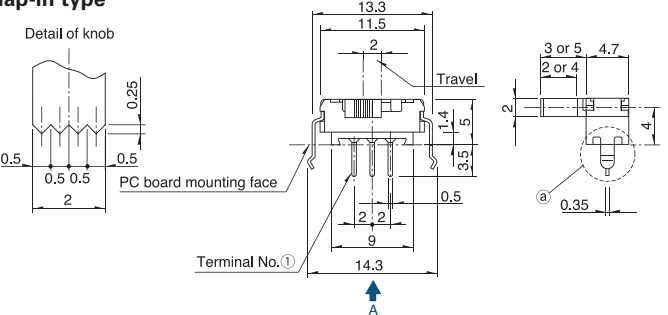
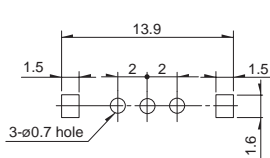
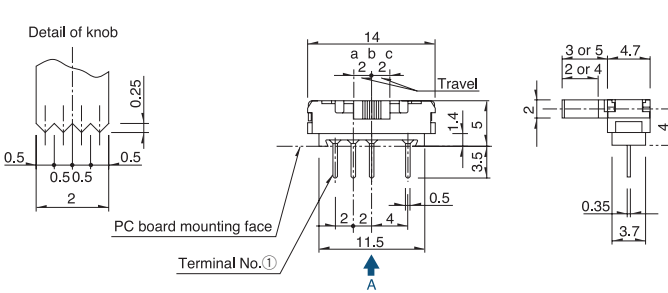
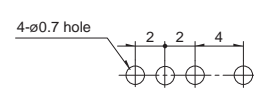
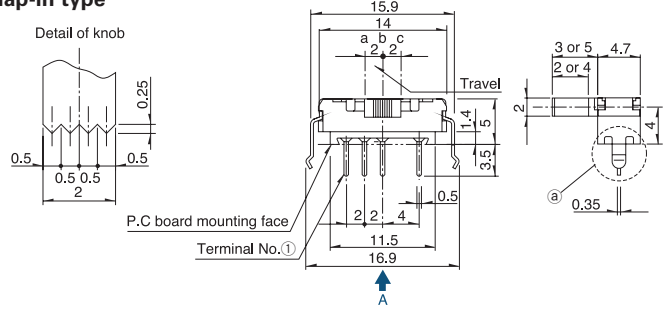
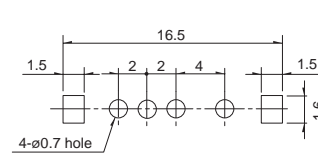
Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from direction A)
4	1-pole, 3-position Snap-in type	
5	2-pole, 2-position Standard type	
6	2-pole, 3-position Standard type	
7	2-pole, 3-position Snap-in ty	

■ Dimensions

Horizontal Actuator Type

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from direction A)
8	<p>1-pole, 2-position Standard type</p> 	
9	<p>1-pole, 2-position Snap-in type</p> 	
10	<p>1-pole, 3-position Standard type</p> 	
11	<p>1-pole, 3-position Snap-in type</p> 	

Detector

Slide

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Rotary

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Small size
General Use Type

Big size
General Use Type

SSSS9 5(H)mm, 2mm-travel Type

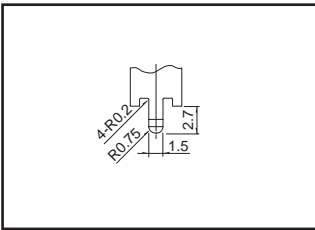
■ Dimensions

Horizontal Actuator Type

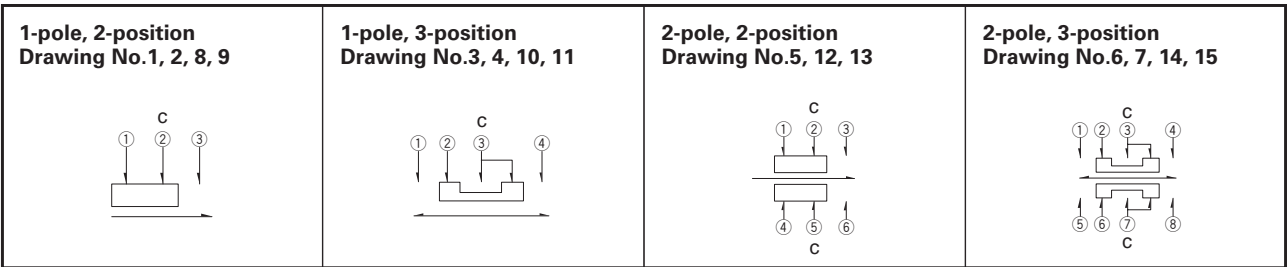
Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from direction A)
12	2-pole, 2-position Standard type 	
13	2-pole, 2-position Snap-in type 	
14	2-pole, 3-position Standard type 	
15	2-pole, 3-position Snap-in type 	











Detail of (a) Unit:mm



Circuit Diagram (Viewed from Direction A)



- Detector
- Slide
- Push
- Rotary
- Power
- Dual-in-line Package Type
- Small size General Use Type
- Big size General Use Type

Series		SSSS2※	SSSS9	SSAC	SSSF	SSSU
Photo						
Actuator direction	Horizontal	●	●	●	●	●
	Vertical	●	●	—	●	●
Poles-positions	1-2	●	●	—	●	●
	1-3	●	●	—	●	●
	1-4	●	—	—	—	—
	2-2	●	●	●	●	●
	2-3	●	●	●	●	●
	2-4	●	—	—	—	—
	4-2	—	—	—	●	●
Travel (mm)		2	2	1.5	2	3
Operating temperature range		-40°C to +85°C		-10°C to +60°C	-40°C to +85°C	
Automotive use		—	—	—	—	—
Life cycle						
Rating (max.) (Resistive load)		0.3A 6V DC	0.1A 12V DC	1mA 5V DC	0.1A 30V DC	
Rating (min.) (Resistive load)		50μA 3V DC	1mA 5V DC	50μA 3V DC		
Durability	Operating life without load	10,000 cycles 100mΩ max.※	10,000 cycles 60mΩ max.	10,000 cycles 200mΩ max.	10,000 cycles 45mΩ max.	
	Operating life with load Load: as rating	10,000 cycles 130mΩ max.※	10,000 cycles 80mΩ max.		10,000 cycles 65mΩ max.	
Electrical performance	Initial contact resistance	70mΩ max.	30mΩ max.	100mΩ max.	25mΩ max.	
	Insulation resistance	100MΩ min. 500V DC		100MΩ min. 100V DC	100MΩ min. 500V DC	
	Voltage proof	500V AC for 1minute		100V AC for 1minute	500V AC for 1minute	
Mechanical performance	Terminal strength		3N for 1minute		5N for 1minute	
	Actuator strength	Operating direction	20N	30N	5N	30N
		Pulling direction	10N			
Environmental performance	Cold	-20°C 500h	-40°C 500h	-20°C 96h	-40°C 500h	
	Dry heat	85°C 500h		85°C 96h	85°C 500h	
	Damp heat	60°C, 90 to 95%RH 500h		40°C, 90 to 95%RH 96h	60°C, 90 to 95%RH 500h	
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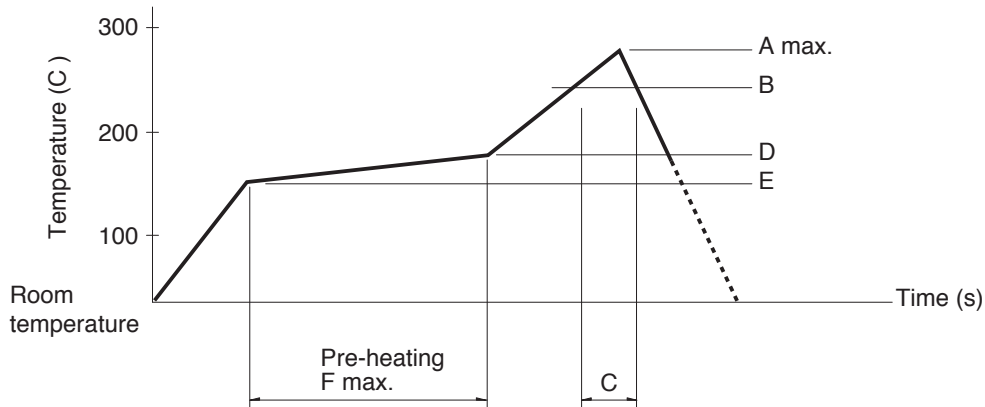
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Notes

- ※ Operating life for SSSS213202 is 100 cycles.
- Indicates applicability to all products in the series.

Example of Reflow Soldering Condition

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple ϕ 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 (s)	D (°C)	E (°C)	F (s)
SSSS2	Vertical 1-pole, 3-position	260	230	40	180	150	120
	Horizontal 1-pole, 2-position 1-pole, 3-position 2-pole, 3-position						
	Vertical 1-pole, 2-position	250					
SSAG, SSAJ, SSAL, SSSS8, SSS7		260					

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
SSSF, SSSU	350±10°C	3+1/0s
SSSS2	350±10°C	4s max.
SSSS9	350±10°C	3s max.
SSAG, SSAJ, SSAL	350±5°C	3s max.
SSSS8	330±5°C	3s max.
SSSS7	320±5°C	3s max.
SSAC	300±10°C	2s max.

Reference for Dip Soldering

(For PC board terminal types)

Series	Items		Dip soldering	
	Preheating temperature	Preheating time	Soldering temperature	Duration of immersion
SSSS2	100°C max.	60s max.	260±5°C	3±1s
SSSS9	120°C max.	60s max.	260±5°C	5+0/-1s (2 times)
SSSF, SSSU	100°C max.	60s max.	260±5°C	10±1s/5±1s
SSAC	100°C max.	60s max.	260±5°C	5±1s

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