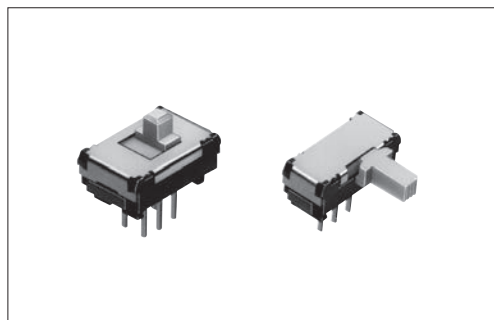


SSSS9 5(H)mm, 2mm-travel Type

Mid-size general purpose type well established for user friendliness



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	100	5,000	SSSS912000	1	
				Snap-in (t1.6)	SSSS910400					2		
				3	Standard	Not specified				SSSS919500	3	
					Snap-in (t1.6)					SSSS918500	4	
			2	2	Standard	Non shorting				SSSS922000	5	
				3		Not specified				4,000	SSSS921800	6
		4	1	2	Standard	Non shorting			5,000	SSSS912500	1	
				Snap-in (t1.6)	SSSS910800					2		
				3	Standard	Not specified				SSSS919800	3	
					Snap-in (t1.6)					SSSS918700	4	
			2	2	Standard	Non shorting				SSSS922500	5	
				3		Not specified				4,000	SSSS923200	6
	Horizontal	2	1	2	Standard	Non shorting			5,000	SSSS916900	8	
				Snap-in (t1.6)	SSSS915001					9		
				3	Standard	Not specified				SSSS91B900	10	
										SSSS926400	12	
			2	2	Standard	Not specified				4,000	SSSS928500	14
				3								
		4	1	2	Standard	Non shorting			5,000	SSSS916400	8	
				Snap-in (t1.6)	SSSS914503					9		
				3	Standard	Not specified				SSSS91B600	10	
					Snap-in (t1.6)					SSSS91A601	11	
			2	2	Standard	Non shorting				SSSS925800	12	
				Snap-in (t1.6)	SSSS923802					13		
			3	Standard	Not specified	4,000			SSSS928200	14		
				Snap-in (t1.6)		SSSS925701			15			

Note

Please contact us for automotive use products.

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

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	1-pole, 2-position Standard type	
2	1-pole, 2-position Snap-in type	
3	1-pole, 3-position Standard 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 type	

Horizontal Actuator Type

Unit:mm

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

■ Dimensions

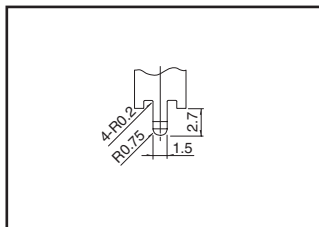
Horizontal Actuator Type

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 	

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

Detail of ① Unit:mm



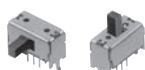
Circuit Diagram (Viewed from Direction A)

1-pole, 2-position Drawing No.1, 2, 8, 9	1-pole, 3-position Drawing No.3, 4, 10, 11	2-pole, 2-position Drawing No.5, 12, 13	2-pole, 3-position Drawing No.6, 7, 14, 15

Slide Switches

List of Varieties

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

Series		SSSS2※1	SSSS9	SSAC	SSSF※2	SSSU※2
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℃ to +85℃		-10℃ to +60℃	-40℃ to +85℃	
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	10μA 1V DC	
Durability	Operating life without load	10,000 cycles 100mΩ max.※1	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.※1	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℃ 500h	-40℃ 500h	-20℃ 96h	-40℃ 500h
	Dry heat		85℃ 500h		85℃ 96h	85℃ 500h
	Damp heat		60℃, 90 to 95%RH 500h		40℃, 90 to 95%RH 96h	60℃, 90 to 95%RH 500h
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Slide Switches Cautions	112

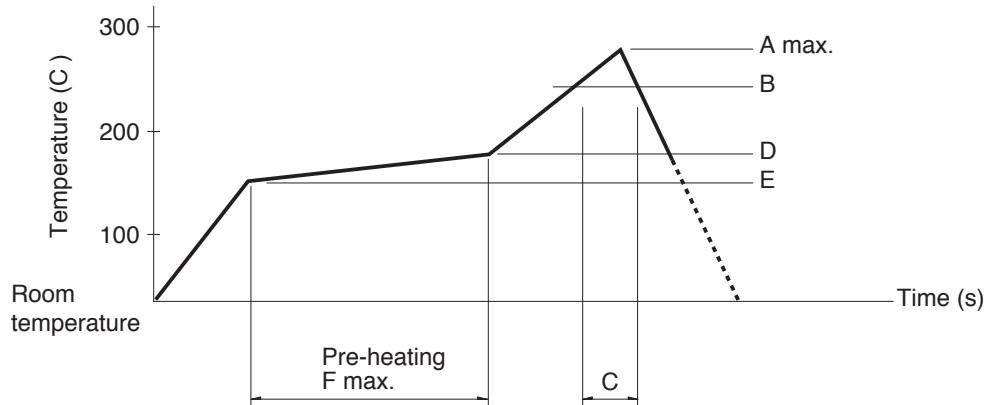
Note

- ※ 1. Operating life for SSSS213202 is 100 cycles.
- ※ 2. The operating temperature range for automotive applications can be raised upon request. Please contact us for details.
- Indicates applicability to all products in the series.

Slide Switches Soldering Conditions

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					
SSSS7			260					
SSAH, SSAG, SSAJ, SSAL, SSSS8			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.
SSAH, 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