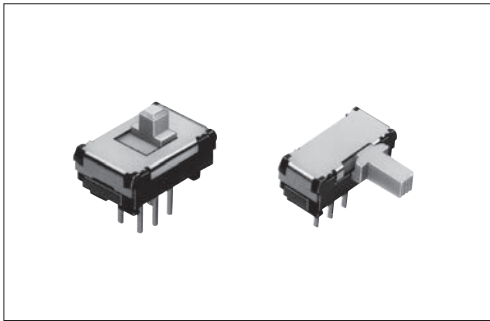


Mid-size general purpose type well established for user friendliness



■ 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	Standard	2	Non shorting					SSSS922000	5
			3		Not specified	SSSS921800				6		
		4	1	2	Standard	Non shorting			5,000	SSSS912500	1	
				Snap-in (t1.6)	SSSS910800					2		
				3	Standard					SSSS919800	3	
			Snap-in (t1.6)	SSSS918700	4							
			2	Standard	2	Non shorting				4,000	SSSS922500	5
					3	Not specified					SSSS923200	6
	Horizontal	2	1	2	Standard	Non shorting	Manual, Dip	100	5,000	SSSS916900	8	
				Snap-in (t1.6)	SSSS915001					9		
				3	Standard					Not specified	SSSS91B900	10
			2	Non shorting		SSSS926400				12		
			3	Not specified		SSSS928500				14		
			4	1	2	Standard				Non shorting	5,000	SSSS916400
		Snap-in (t1.6)			SSSS914503	9						
		3			Standard	SSSS91B600			10			
		Snap-in (t1.6)		SSSS91A601	11							
		2		Standard	2	Non shorting			4,000	SSSS925800		12
					Snap-in (t1.6)	SSSS923802				13		
		3	Standard	3	Standard	Not specified			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	<p><b>1-pole, 2-position Standard type</b></p>	
2	<p><b>1-pole, 2-position Snap-in type</b></p>	
3	<p><b>1-pole, 3-position Standard type</b></p>	

■ Dimensions

Vertical Actuator Type

Unit:mm

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

Detector  
Slide  
Push  
Rotary  
Power  
Dual-In-line Package Type  
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)
8	<p><b>1-pole, 2-position Standard type</b></p>	
9	<p><b>1-pole, 2-position Snap-in type</b></p>	
10	<p><b>1-pole, 3-position Standard type</b></p>	
11	<p><b>1-pole, 3-position Snap-in type</b></p>	

■ Dimensions

Horizontal Actuator Type

Unit:mm

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

Detector

Slide

Push

Rotary

Power

Dual-In-line  
Package Type

Small size  
General Use Type

Big size  
General Use Type

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

Detector

Slide

Push

Rotary

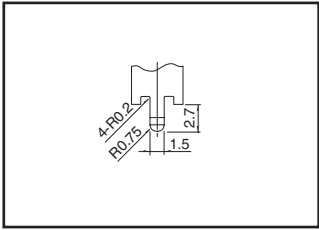
Power

Dual-In-line  
Package Type

Small size  
General Use Type

Big size  
General Use Type

## Detail of (a) Unit:mm













## Circuit Diagram (Viewed from Direction A)

<p><b>1-pole, 2-position</b> Drawing No.1, 2, 8, 9</p>	<p><b>1-pole, 3-position</b> Drawing No.3, 4, 10, 11</p>	<p><b>2-pole, 2-position</b> Drawing No.5, 12, 13</p>	<p><b>2-pole, 3-position</b> Drawing No.6, 7, 14, 15</p>
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# Slide Switches

## List of Varieties

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°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	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°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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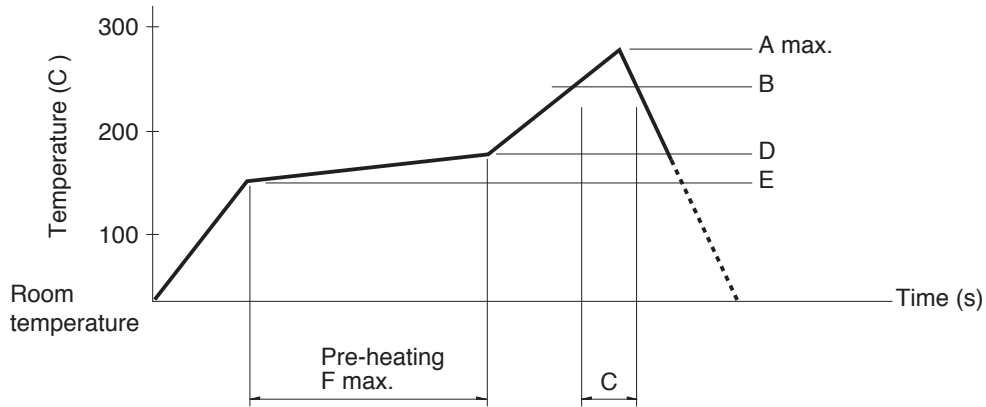
### Note

- ※ 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  $\phi$  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 (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



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