

5(H)mm, 2mm-travel Type Slide Switch

SSSS9 Series

Medium general type famous for its high operability.

Power

Push

Slide

Rotary

Encoders

Detector

Dual-in-line
Package Type

Multi Control
Devices

TACT

Custom-
Products

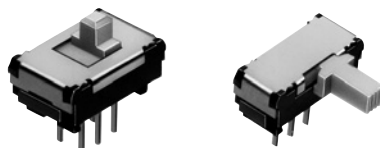
Small size
General Use type

Big size
General Use type

Other Use type



Car Use



Features

- 2mm-travel.

Applications

- AV devices, including DVD players, LCD TVs, headphone stereos, portable CD players, and VCR/cameras
- For the switching modes of memory cards
- For the switching modes of communication devices, including FAX machines and cordless telephones
- For the switching modes of air conditioners

Typical Specifications

Items		Specifications	
Rating (max.) (Resistive load)		0.1A 12V DC	
Contact resistance (Initial performance/After lifetime)		30mΩ max./80mΩ max.	
Operating force		2-positions	3-positions
		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)	

Products Line

Travel (mm)	Operating section directions	Length of operating section (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum packing unit (pcs.)	Products No.	Drawing No.
2	Vertical	2	1	2	Standard	Non shorting	Manual, Dip	100	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
						Not specified			SSSS921800	6
		4	1	2	Standard	Non shorting			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
						Not specified			SSSS923200	6
			3	Snap-in (t1.6)	Not specified	SSSS920600			7	

For other detailed specifications, see P.146

Products Line

Travel (mm)	Operating section directions	Length of operating section (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum packing unit(mm)	Products No.	Drawing No.
2	Horizontal	2	1	2	Standard	Non shorting	Manual, Dip	100	SSSS916900	8
					Snap-in (t1.6)				SSSS915000	9
				3	Standard	Not specified			SSSS91B900	10
					Snap-in (t1.6)				SSSS91A900	11
			2	2	Standard	Non shorting			SSSS926400	12
				3		Not specified			SSSS928500	14
		4	1	2		Non shorting			SSSS916400	8
					Snap-in (t1.6)				SSSS914500	9
				3	Standard	Not specified			SSSS91B600	10
					Snap-in (t1.6)				SSSS91A600	11
			2	2	Standard	Non shorting			SSSS925800	12
					Snap-in (t1.6)				SSSS923800	13
				3	Standard	Not specified			SSSS928200	14
					Snap-in (t1.6)				SSSS925700	15

Note

Additional switches not included in the above list are also available. Contact us for details.

Dimensions

Vertical Operating Section Type

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
1	1-pole, 2-positions Standard type 	
2	1-pole, 2-positions Snap-in type 	
3	1-pole, 3-positions Standard type 	

Small size
General Use type

Big size
General Use type

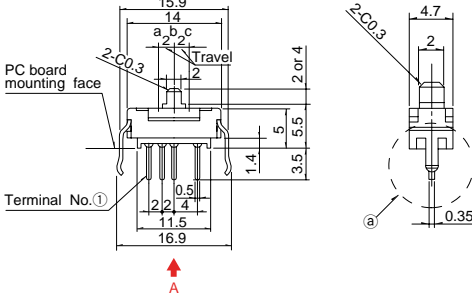
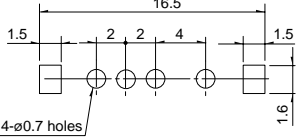
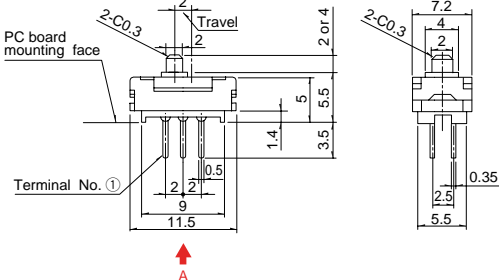
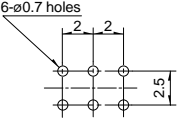
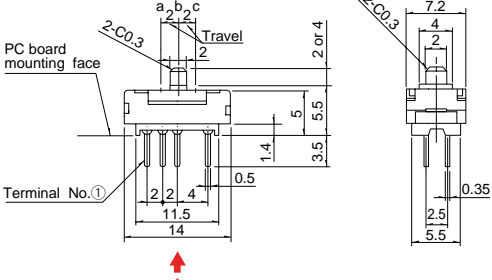
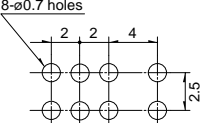
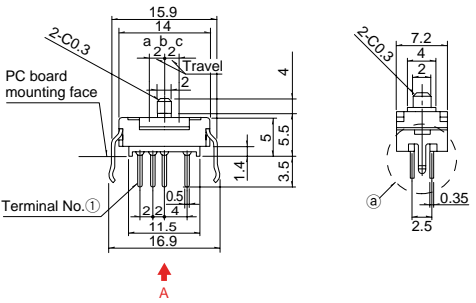
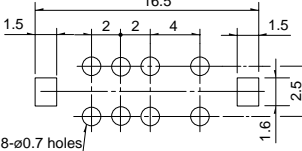
Other Use type

For other detailed specifications, see P.146

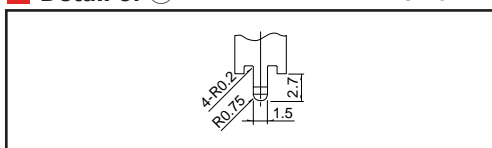
■ Dimensions

Vertical Operating Section Type

Unit:mm

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

Unit:mm



Circuit Diagram (Viewed from the Direction A)

<p>1-pole, 2-positions Standard type</p>	<p>1-pole, 2-positions Snap-in type</p>	<p>1-pole, 3-positions Standard type</p>	<p>1-pole, 3-positions Snap-in type</p>
<p>2-poles, 2-positions Standard type</p>	<p>2-poles, 2-positions Snap-in type</p>	<p>2-poles, 3-positions Standard type</p>	<p>2-poles, 3-positions Snap-in type</p>

Dimensions

Unit:mm

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

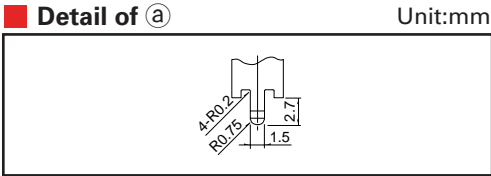
Other Use type

Dimensions

Horizontal Operating Section Type

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
11	1-pole, 3-positions Snap-in type 	
12	2-poles, 2-positions Standard type 	
13	2-poles, 2-positions Snap-in type 	
14	2-poles, 3-positions Standard type 	
15	2-poles, 3-positions Snap-in type 	



Circuit Diagram (Viewed from the Direction A)

<div>1-pole, 2-positions Standard type</div> <div></div>	<div>1-pole, 2-positions Snap-in type</div> <div></div>	<div>1-pole, 3-positions Standard type</div> <div></div>	<div>1-pole, 3-positions Snap-in type</div> <div></div>
<div>2-poles, 2-positions Standard type</div> <div></div>	<div>2-poles, 2-positions Snap-in type</div> <div></div>	<div>2-poles, 3-positions Standard type</div> <div></div>	<div>2-poles, 3-positions Snap-in type</div> <div></div>

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Push

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Big size
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Products Specifications

	Series		SSAD	SSSS8	SSSS7	SSSS2	SSSS9	SSSF	SSSU	
	Items									
Power	Operating temperature range		-10℃ to +60℃							
Push	Rating (max.) (Resistive load)		1mA 5V DC	0.3A 4V DC		0.3A 6V DC	0.1A 12V DC	0.1A 30V DC		
Slide	Electrical performance	Initial contact resistance	100mΩ max.	70mΩ max.			30mΩ max.	25mΩ max.		
Rotary		Insulation resistance	100MΩ min. 100V DC		100MΩ min. 500V DC					
		Voltage proof	100V AC for 1 min.		500V AC for 1 min.					
Encoders	Mechanical performance	Robustness of terminal		3N for 1 min.					5N for 1 min.	
Detector		Robustness of actuator	Operating direction	5N	10N		20N	30N		
Dual-in-line Package Type			Pulling direction	5N	10N Static force			10N	30N Static force	
Multi Control Devices		Vibration		10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively						
TACT		Solderability		230±5℃, 3±0.5s						
Custom-Products		Resistance to soldering heat	Manual soldering	300±5℃ 5s max.		260±5℃ 3s max.	350±10℃ 4s max.	300±10℃ 5s max.	350±10℃ 5s max.	350±10℃ 3 ⁺¹ ₀ s
			Dip soldering	—			※1 260±5℃ 5 ⁻⁰ ₁ s			260±5℃ 10±1s
			Reflow soldering	Please see P.148				—		
Small size General Use type	Durability	Operating life without load		※2 10,000 cycles 100mΩ max.			10,000 cycles 60mΩ max.	10,000 cycles 45mΩ max.		
Big size General Use type		Operating life with load Load : As rating		10,000 cycles 200mΩ max.	※2 10,000 cycles 130mΩ max.			10,000 cycles 80mΩ max.	10,000 cycles 65mΩ max.	
Other Use type	Environmental performance	Cold		-20±2℃ for 96h						
		Dry heat		85±2℃ for 96h						
		Damp heat		40±2℃, 90 to 95%RH for 96h						

Note

- ※1 Horizontal type products in SSSS2 Series with 1 pole and 2 positions are not dip solderable.
- ※2 SSSS213202 only 100 cycles.