

Mid-size general purpose type well established for user friendliness.

Detector

Slide

Push

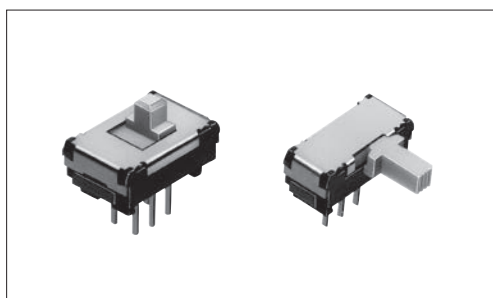
Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™



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-positions	3-positions
		3±1.5N	a, c → b 2±1N b → a, c 3±1.5N
Operating life	Without load	10,000cycles	
	With load	10,000cycles (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					SSSS919500	3		
			Snap-in (t1.6)	SSSS918500	4								
			2	Standard	2	Non shorting				SSSS922000	5		
			3		Not specified	SSSS921800				6			
		4	1	2	Snap-in (t1.6)	Non shorting				SSSS912500	1		
				3	Standard	Not specified				SSSS910800	2		
				Snap-in (t1.6)	SSSS919800	3							
			2	2	Standard	Non shorting				SSSS918700	4		
				3	Snap-in (t1.6)	Not specified				SSSS922500	5		
				Snap-in (t1.6)	SSSS923200	6							
	Horizontal	2	1	2	Standard	Non shorting			Manual, Dip	100	5,000	SSSS916900	8
				Snap-in (t1.6)	Not specified	SSSS915000						9	
				3	Standard	Non shorting						SSSS91B900	10
			2	Non shorting		SSSS926400						12	
			3	Not specified		SSSS928500						14	
			4	1	2	Snap-in (t1.6)						Non shorting	5,000
		3			Standard	Not specified					SSSS914500	9	
		Snap-in (t1.6)			SSSS91B600	10							
		2		2	Standard	Non shorting					SSSS91A600	11	
				Snap-in (t1.6)	SSSS925800	12							
				3	Standard	Not specified					SSSS923800	13	
		4,000	Snap-in (t1.6)	SSSS928200	14								
Snap-in (t1.6)	SSSS925700		15										

Notes

- Other varieties are also available. Please inquire.
- Please contact us for automotive use products.

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, SSSS925700	800	4,000	400 × 270 × 290
SSSS912000, SSSS910800, SSSS926400, SSSS910400, SSSS919800, SSSS916400, SSSS919500, SSSS918700, SSSS914500, SSSS918500, SSSS922500, SSSS91B600, SSSS922000, SSSS916900, SSSS91A600, SSSS912500, SSSS915000, SSSS925800, SSSS91B900, SSSS923800	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-positions Standard type</p>	<p>3-ϕ0.7 holes</p>
2	<p>1-pole, 2-positions Snap-in type</p>	<p>3-ϕ0.7 holes</p>
3	<p>1-pole, 3-positions Standard type</p>	<p>4-ϕ0.7 holes</p>
4	<p>1-pole, 3-positions Snap-in type</p>	<p>4-ϕ0.7 holes</p>

Detector

Slide

Push

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Small size
General Use type

Big size
General Use type

Dimensions

Vertical Actuator Type/Horizontal Actuator Type

Unit:mm

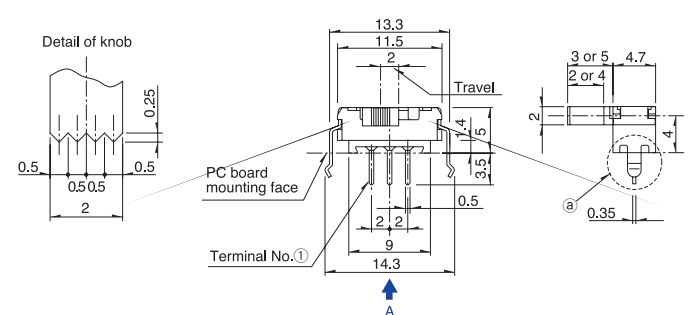
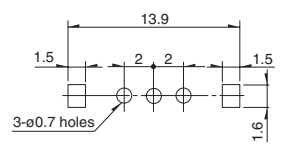
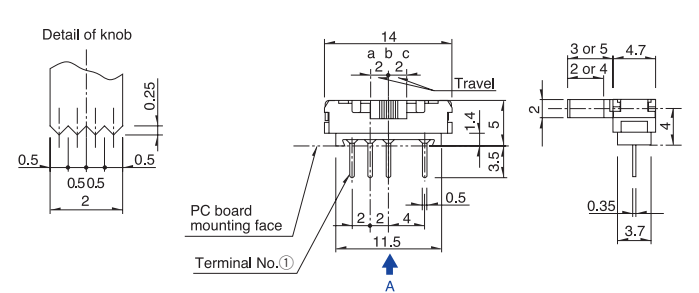
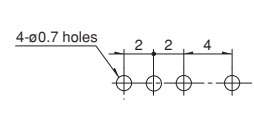
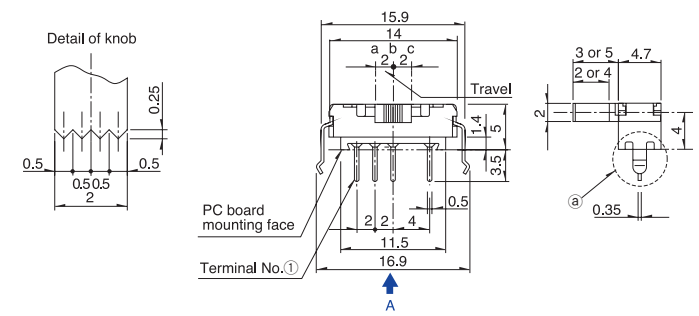
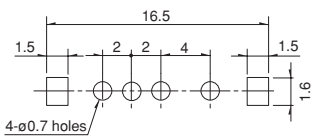
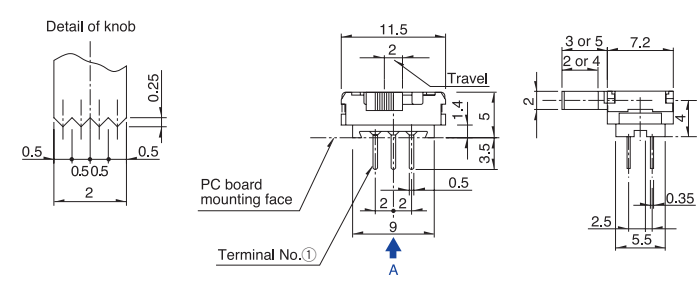
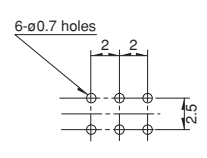
No.	Style	PC board mounting hole dimensions (Viewed from direction A)
5	<p>2-poles, 2-positions Standard type</p>	<p>6-ϕ0.7 holes</p>
6	<p>2-poles, 3-positions Standard type</p>	<p>8-ϕ0.7 holes</p>
7	<p>2-poles, 3-positions Snap-in type</p>	<p>8-ϕ0.7 holes</p>
8	<p>1-pole, 2-positions Standard type</p>	<p>3-ϕ0.7 holes</p>

- Detector
- Slide
- Push
- Rotary
- Encoders
- Power
- Dual-in-line Package Type
- TACT Switch™
- Small size General Use type
- Big size General Use type

Dimensions

Horizontal Actuator Type

Unit:mm

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

Detector

Slide

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Package Type

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Small size
General Use type

Big size
General Use type

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Dimensions

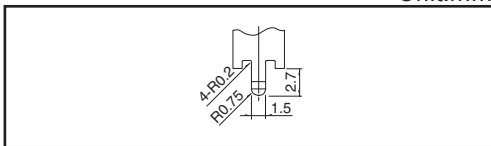
Horizontal Actuator Type

Unit:mm

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

Detail of (a)




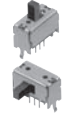








Unit:mm



Circuit Diagram (Viewed from Direction A)

<p>1-pole, 2-positions Standard type Drawing No. : 1, 2, 8, 9</p>	<p>1-pole, 3-positions Standard type Drawing No. : 3, 4, 10, 11</p>	<p>2-poles, 2-positions Standard type Drawing No. : 5, 12, 13</p>	<p>2-poles, 3-positions Standard type Drawing No. : 6, 7, 14, 15</p>
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List of Varieties

Series		SSSS9	SSAC	SSAA※	SSSF※	SSSU※	SSSB	
Photo								
Actuator direction	Horizontal	●	●	●	●	●	—	
	Vertical	●	—	—	●	●	●	
Dimensions (mm)	W	14	9.5	12.4	16.5	24.5	29	
	D	4.7	5.5	6	7		9	
	H	5	5.2	5	8.5		12	
Poles-positions	1-2	●	—	●	●	●	—	
	1-3	●	—	●	●	●	—	
	1-4	—	—	—	—	—	—	
	2-2	●	●	●	●	●	●	
	2-3	●	●	●	●	●	●	
	2-4	—	—	—	—	—	—	
4-2	—	—	—	●	●	●		
Travel (mm)		2	1.5	2		3	4	
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)		0.1A 12V DC	1mA 5V DC	0.1A 30V DC			0.3A 30V DC	
Rating (min.) (Resistive load)		1mA 5V DC	—	—	10μA 1V DC			
Durability	Operating life without load	10,000cycles 60mΩ max.	10,000cycles 200mΩ max.	10,000cycles 45mΩ max.			10,000cycles 40mΩ max.	
	Operating life without load Load:as rating	10,000cycles 80mΩ max.		10,000cycles 65mΩ max.			5,000cycles 60mΩ max.	
Electrical performance	Initial contact resistance	30mΩ max.	100mΩ max.	25mΩ max.			20mΩ 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	30N	5N	10N	30N		50N
		Pulling direction	10N			30N Static force		
Environmental performance	Cold		-40±2°C for 500h	-20±2°C for 96h	-40±2°C for 500h			
	Dry heat		85±2°C for 500h	85±2°C for 96h	85±2°C for 500h			
	Damp heat		60±2°C, 90 to 95%RH for 500h	40±2°C, 90 to 95%RH for 96h	40±2°C, 90 to 95%RH for 500h	60±2°C, 90 to 95%RH for 500h		
Page		90	95	97	100	104	108	

- Slide Switches Soldering Conditions 111
- Slide Switches Cautions 112

Note

1. ※ The operating temperature range for automotive applications can be raised upon request. Please contact us for details.
2. ● indicates applicability to all products in the series.

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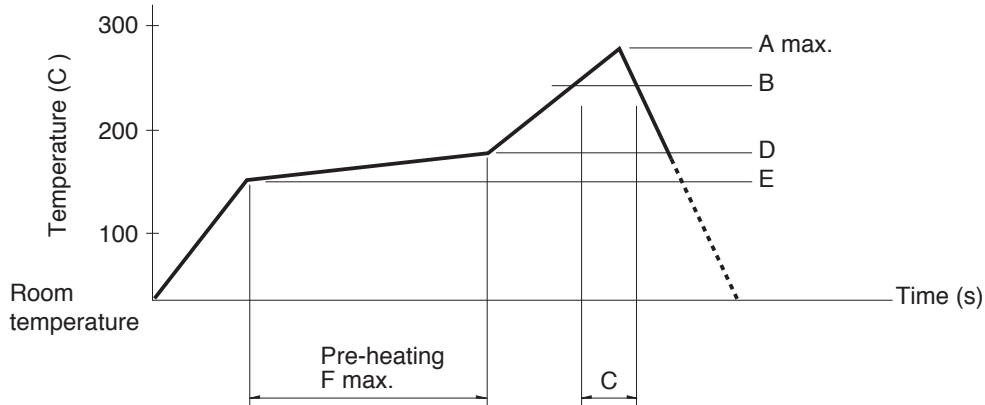
Small size
General Use type

Big size
General Use type

Slide Switches Soldering Conditions

Example of Reflow Soldering Condition

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple 0.1 to 0.2 φ 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-positions	250	230	40	180	150	120
	Horizontal	1-pole, 2-positions 1-pole, 3-positions 2-poles, 3-positions	260					
	Vertical	1-pole, 2-positions	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, SSSB, SSAA	350±10°C	3+1 / 0s
SSSS2	350±10°C	4s max.
SSSS9	350±10°C	3s max.
SSAH, SSAG, SSAJ, SSAL, SSSS8, SSSS7	350±5°C	3s max.
SSAC	300±5°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 (2times)
SSAA	100°C max.	60s max.	260±5°C	10±1s
SSSF, SSSU, SSSB	—		260±5°C	10±1s
SSAC	—		260±5°C	5±1s

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Dual-in-line
Package Type

TACT Switch™

Small size
General Use type

Big size
General Use type

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