Slide Switch 4mm-travel, Self-return Type

SSST Series





Two types: one has a cover and the other is an integrated design without a cover.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

Multi Control Devices

TACT Switch™

Custom-Products

Small size General Use type

Big size General Use type

Other Use type

Features

- 4mm-travel.
- Reflow solderable type also available.

Applications

AV devices including digital camcorders and industrial cameras

Typical Specifications

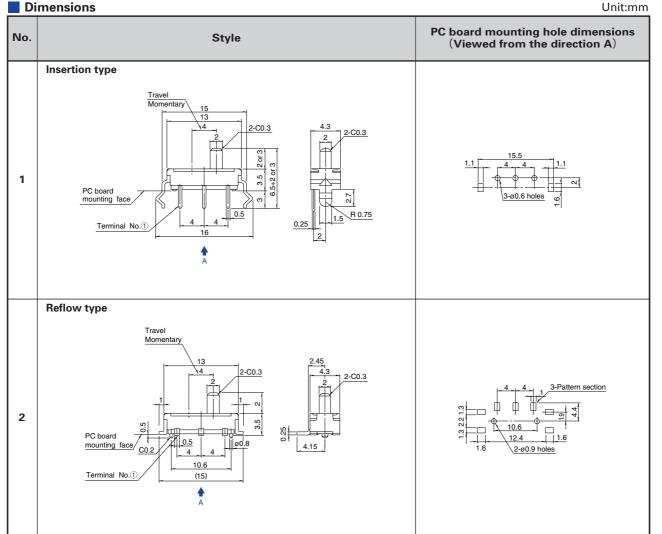
Typical opcomodule					
Items		Specifications			
Rating (max.) / (min.) (Resistive load)		0.1A 12V DC/50μA 3V DC			
Contact resistance (Initial performance)	After lifetime)	70 m Ω max./ 130 m Ω max.			
Operating force		2±1N			
Operating life	Without load	10,000 cycles			
Operating me	With load	10,000 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.
4 Vertical		2		2	Snap-in (t1)		Manual,	100	SSST010600	1
	Vertical	3	1			Non shorting	Dip		SSST010500	
		2			_		Reflow	1,100	SSST011000	2

Note

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



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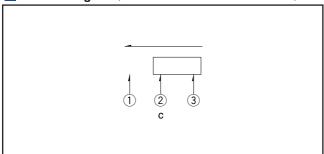
Custom-**Products**

Small size General Use type

General Use type

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■ Circuit Diagram (Viewed from the Direction A)



Products Specifications

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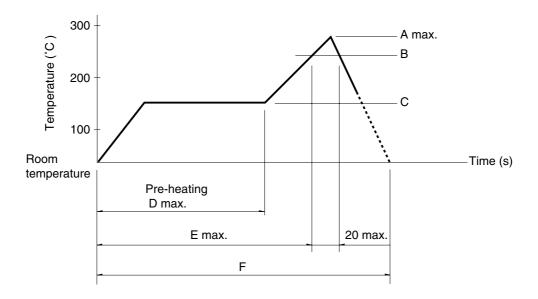
Other Use type

		Series	0000	0044	0040	0045	0007		
Items			SSSB	SSAA	SSAC	SSAB	SSST		
Operating temperature range			−10°C to +60°C						
Rating (max.) (Resistive load)			0.3A 30V DC	0.1A 30V DC	1mA 5V DC	0.1A 12V DC			
	Initial conta	ct resistance	20mΩ max.	25mΩ max.	100mΩ max.	30mΩ max.	70mΩ max.		
Electrical performance	Insulation	resistance	100MΩ min. 500V DC		100MΩ min. 100V DC	100MΩ min. 500V DC			
	Voltag	je proof	500V AC	for 1 min.	100V AC for 1 min.	500V AC for 1 min.			
	Robustness of terminal			5N for	1 min.		3N for 1 min.		
	Robustness of actuator	Operating direction	50N	10N	5N	30N	20N		
		Pulling direction	30N Static force	TON		40N	10N		
Mechanical performance	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						
	Resistance to soldering heat	Manual soldering	350±10℃ 3 ⁺ ₀s		300±10℃ 2s max.	350±10℃ 3 ⁺ ¦s	350±10℃ 3s max.		
		Dip soldering	260±5℃ 10±1s		260±10℃ 5±1s	260±5℃ 10±1s	260±5℃ 5-9s		
		Reflow soldering				Please see P.161			
	Operating life without load		10,000 cycles 40mΩ max.	10,000 cycles 45mΩ max.		1,000 cycles 60mΩ max.	10,000 cycles 100m Ω max.		
Durability	Operating life with load Load : as rating		5,000 cycles 60mΩ max.	10,000 cycles 65mΩ max.	10,000 cycles 200mΩ max.	1,000 cycles 80mΩ max.	10,000 cycles 130mΩ max.		
Environmental performance	Cold		–20±2℃ for 96h						
	Dry heat		85±2℃ for 96h						
	Damp heat		40±2℃, 90 to 95%RH for 96h						

Soldering Conditions

Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2ϕ 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 (Re	flow type)	A(℃) 3s max.	B (℃)	c (℃)	D (s)	E(s)	F (s)
	Vertical	1-pole, 3-positions	250	200				
	Horizontal	1-pole, 2-positions	250					
SSSS2	Vertical	1-pole, 2-positions						
	Horizontal	1-pole, 3-positions 2-poles, 3-positions	240					
	SSSS7		250		150	120		
	SSAD		240	220				
	Horizontal	1-pole, 2-positions 1-pole, 3-positions (1.5mm)	255	200				
SSSS8	Tionzontai	1-pole, 3-positions (2mm) 1-pole, 4-positions 2-poles, 2-positions	240	220				
	Vertical		240					
	SSST			200				

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. You are requested to verify the soldering conditions thoroughly beforehand.

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Taping Specifications

■ Taping Packaging

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Dual-in-line

Package Type
Multi Control
Devices

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Big size General Use type

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Reel Size		Unit:mm
	<u>Ø13 hole</u> <u>Ø21</u> <u>088</u> 02.00 W	

Series		Num	Reel width	Tape width			
		1 reel	1 case / domestic	1 case/export packing	W (mm)	(mm)	
	Vertical	1-pole, 2-positions	1,200	2,400	4,800		24
SSSS2	Vertical	1-pole, 3-positions	1,000	2,000	4,000	24.4	
	Horizontal		1,400	2,800	5,600		
		SSSS71	2,000	4,000	8,000	16.4	16
SSSS7 ※	SSSS7A SSSS7B		2,000	4,000	8,000	25.5	24
	SSSS7C		4,800	9,600	19,200	24.4	24
	Vertical		1,800	3,600	7,200	24.4	
SSSS8		1-pole, 2-positions (1.5mm) 1-pole, 2-positions (2mm) 1-pole, 3-positions (1.5mm)	4,500	9,000 18,000	18,000	16.4	16
	Horizontal	1-pole, 3-positions (2mm)					
	1-pole, 4-positions 2-poles, 2-positions		2,500	5,000	10,000	24.4	24
	SSST		1,100	2,200	4,400		
	SSAD		5,000	10,000	20,000	16.4	16

Notes

- 1. Order products in N minimum packing units (1 reel or 1 case) .
- 2. *For the SSSS7 Series only, the reel is different from what is illustrated.