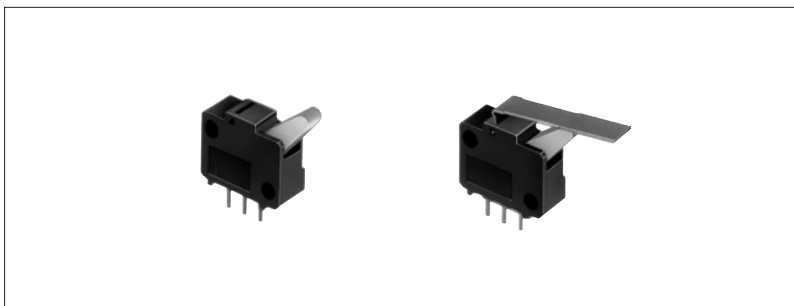


Micro Switch Type Detector Switch

SSCT Series

Micro detector switch providing printed wiring or lead wiring.

- Power
- Push
- Slide
- Rotary
- Encoders
- Jog Shuttle
- Telephone-hook
- Detector**
- Vibration Sensors
- Dual-in-line Package Type
- Multi Control Devices
- TACT



Car Use

Features

- Can be mounted on a panel with screws.

Applications

- For detection mechanisms in car audio systems and in-vehicle components
- For detection mechanisms in printers and FAX machines

Typical Specifications

Items		Specifications	
Rating (max.) (Resistive load)		0.1A 12V DC	
Contact resistance (Initial performance / After lifetime)		20mΩ max. / 60mΩ max.	
Operating force		Lever type	Actuator type
		0.7±0.3N	0.4±0.3N
Operating life	Without load	10,000 cycles	
	With load	10,000 cycles (0.1A 12V DC)	

Products Line

Poles	Positions	Changeover timing	Operation mode	Terminal style	Minimum packing unit (pcs.)	Products No.	Drawing No.
1	2	Non shorting	Lever	For PC board	100	SSCTL10600	1
				Lead		SSCTL10400	
			Actuator A	For PC board		SSCTA10500	2
				Lead		SSCTA10300	

Note

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

For other detailed specifications, see P.300

Dimensions

Unit : mm

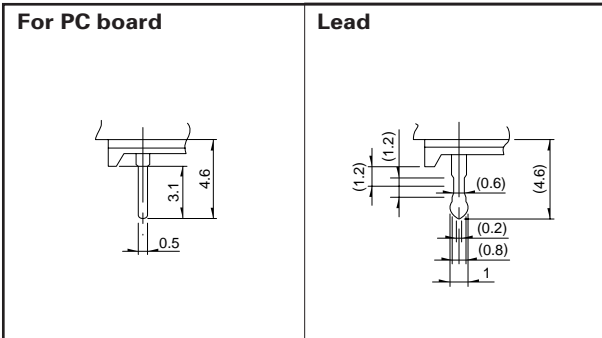
No.	Style	PC board mounting hole dimensions (Viewed from direction A)						
1	<p>Lever</p>	<p>Timing lag diagram</p> <table border="1"> <tr> <td>① ②</td> <td>OFF</td> <td>ON</td> </tr> <tr> <td>② ③</td> <td>ON</td> <td>OFF</td> </tr> </table> <p>9.8 8.8 Travel position (X) ● Push direction only</p>	① ②	OFF	ON	② ③	ON	OFF
① ②	OFF	ON						
② ③	ON	OFF						
2	<p>Actuator A</p>	<p>Timing lag diagram</p> <table border="1"> <tr> <td>① ②</td> <td>OFF</td> <td>ON</td> </tr> <tr> <td>② ③</td> <td>ON</td> <td>OFF</td> </tr> </table> <p>9.8 8.4 Travel position (X) ● Push direction only</p>	① ②	OFF	ON	② ③	ON	OFF
① ②	OFF	ON						
② ③	ON	OFF						

Note

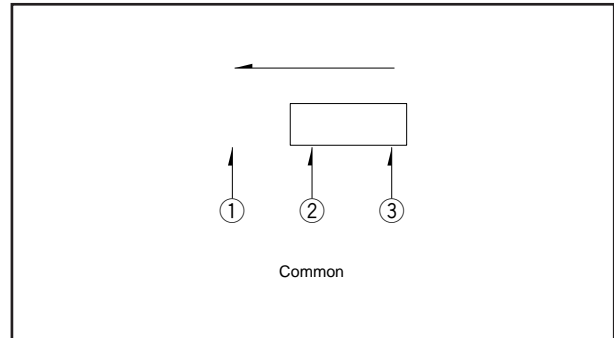
Dimensions show only the shape of the print terminal.

Terminal Style

Unit : mm



Circuit Diagram (Viewed from direction A)



- Power
- Push
- Slide
- Rotary
- Encoders
- Jog Shuttle
- Telephone-hook
- Detector**
- Vibration Sensors
- Dual-in-line Package Type
- Multi Control Devices
- TACT

Products Specifications

Items		Series	SPPB	SPVE	SPPW8	SPVM	SPVF	SSCU	SSCT	SPVP	
		Operating temperature range		-10°C to +60°C							
Power	Rating (max.) (Resistive load)		0.1A 30V DC	0.1A 12V DC	0.1A 30V DC	1mA 5V DC		0.1A 12V DC		1mA 5V DC	
Push	Electrical performance	Initial contact resistance	1Ω max.	500mΩ max.	1Ω max.	2Ω max.	500mΩ max.	70mΩ max.	20mΩ max.	5Ω max.	
Slide		Insulation resistance	100MΩ min. 100V DC					100MΩ min. 250V DC		100MΩ min. 100V DC	
Rotary		Voltage proof	100V AC for 1 min.					250V AC for 1 min.		100V AC for 1 min.	
Encoders	Mechanical performance	Robustness of terminal	3N for 1 min.	0.5N for 1 min.	3N for 1 min.	1N for 1 min.	3N for 30 s	3N for 1 min.		0.5N for 1 min.	
Jog Shuttle		Robustness of actuator	10N	5N	10N	5N	1N	5N	10N	5N	
Telephone-hook		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								
Detector	Resistance to soldering heat	Solderability	230±5°C, 3±0.5s								
Vibration Sensors		Manual soldering	300±5°C, 5s max.	350±5°C, 3s max.	350±10°C, 3 ⁺¹ 0s	350±5°C, 3s max.	300±10°C, 3 ⁺¹ 0s	350±10°C, 3 ⁺¹ 0s		350±5°C, 3s max.	
Dual-in-line Package Type		Dip soldering	260±5°C, 5±1s	—	255±5°C, 5±1s	—	260±5°C, 5±1s	—	260±5°C, 5±1s	—	
Multi Control Devices	Durability	Reflow soldering	Please see P.300				—			Please see P.302	
TACT		Operating life without load	50,000 cycles 2Ω max.	50,000 cycles 1Ω max.	100,000 cycles 2Ω max.	50,000 cycles 5Ω max.	100,000 cycles 1Ω max.	10,000 cycles 100mΩ max.	10,000 cycles 40mΩ max.	50,000 cycles 10Ω max.	
		Operating life with load	(0.1A 30V DC) 50,000 cycles 2Ω max.	(0.1A 12V DC) 50,000 cycles 1Ω max.	(0.1A 30V DC) 100,000 cycles 2Ω max.	(1mA 5V DC) 50,000 cycles 5Ω max.	(1mA 5V DC) 100,000 cycles 1Ω max.	(0.1A 12V DC) 10,000 cycles 150mΩ max.	(0.1A 12V DC) 10,000 cycles 60mΩ max.	(1mA 5V DC) 50,000 cycles 10Ω max.	
Environmental performance		Cold	-20±2°C for 96h	-25±2°C for 96h	-20±2°C for 96h		-40±2°C for 96h	-20±2°C for 96h			
		Dry heat	85±2°C for 96h								
		Damp heat	40±2°C, 90 to 95%RH for 96h								