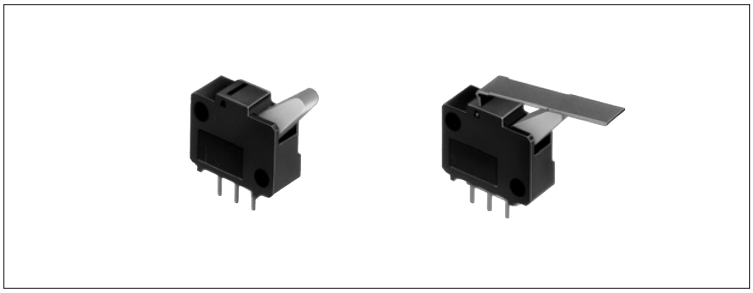
Micro Switch Type Detector Switch

SSCT Series

Micro detector switch providing printed wiring or lead wiring.



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	

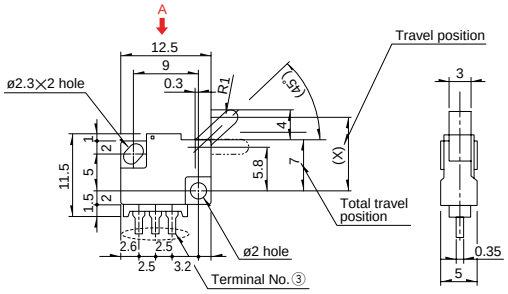
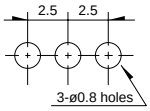
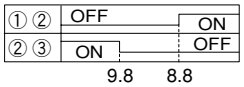
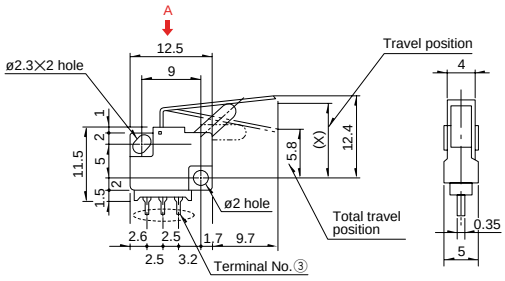
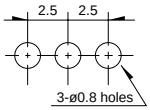
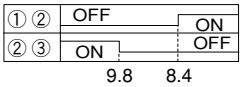
Note

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

For other detailed specifications, see **P.304**

Dimensions

Unit:mm

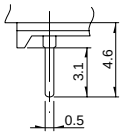
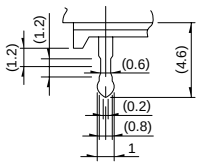
No.	Style	PC board mounting hole dimensions (Viewed from direction A)
1	**Lever** 	 **Timing lag diagram**  Travel position (X) ● Push direction only
2	**Actuator A** 	 **Timing lag diagram**  Travel position (X) ● Push direction only

Note

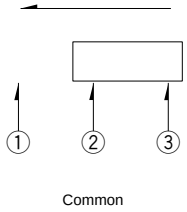
Dimensions show only the shape of the print terminal.

Terminal Style

Unit:mm

For PC board	Lead
	

Circuit Diagram (Viewed from Direction A)



Products Specifications

Items \ Series			SPVC1	SPVF	SSCU	SSCT	SSCF	SSCN	SPVQ1	SPVQ3	SPVQ4	SSCW	SREF
Operating temperature range			−10℃ to +60℃					−40℃ to +85℃					−10℃ to +60℃
Rating (max.) (Resistive load)			10mA 16V DC	1mA 5V DC	0.1A 12V DC								1mA 5V DC
Electrical performance	Initial contact resistance		1Ω max.	500mΩ max.	70mΩ max.	20mΩ max.	100mΩ max.	500mΩ max.					1Ω max.
	Insulation resistance		100MΩ min. 100V DC		100MΩ min. 250V DC		100MΩ min. 100V DC	100MΩ min. 500V DC				100MΩ min. 250V DC	100MΩ min. 100V DC
	Voltage proof		100V AC for 1 min.		250V AC for 1 min.		100V AC for 1 min.	500V AC for 1 min.				250V AC for 1 min.	100V AC for 1 min.
Mechanical performance	Robustness of terminal		3N for 1 min.	3N for 30 s	3N for 1 min.		5N for 1 min.	3N for 1 min.				—	
	Robustness of actuator		10N	1N	5N	10N			20N				5N
	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 +1 0 s	300±10℃, 3 +1 0 s	350±5℃, 3s max.		350±10℃, 3 +1 0 s	300±10℃, 3 +1 0 s				—	
		Dip soldering	260±5℃, 3s max.	260±5℃, 5±1s	—	260±5℃, 5±1s		—	260±5℃, 5±1s			—	
		Reflow soldering	—										
Durability	Operating life without load		25,000 cycles 2Ω max.	100,000 cycles 1Ω max.	10,000 cycles 100mΩ max.	10,000 cycles 40mΩ max.	50,000 cycles 200mΩ max.	100,000 cycles 1Ω max.	300,000 cycles 1Ω max.	300,000 cycles or 1,000,000 cycles 1Ω max.	300,000 cycles 1Ω max.	100,000 cycles 1Ω max.	150,000 cycles 2Ω max.
	Operating life with load		(10mA 16V DC) 25,000 cycles 2Ω 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.	(0.1A 12V DC) 50,000 cycles 300mΩ max.	(0.1A 12V DC) 100,000 cycles 1Ω max.	(0.1A 12V DC) 300,000 cycles 1Ω max.	(0.1A 12V DC) 300,000 cycles or 1,000,000 cycles 1Ω max.	(0.1A 12V DC) 300,000 cycles 1Ω max.	(0.1A 12V DC) 100,000 cycles 1Ω max.	(1mA 5V DC) 150,000 cycles 2Ω max.
Environmental performance	Cold		−20±2℃ for 96h	−40±2℃ for 96h	−20±2℃ for 96h			−40±2℃ for 500h					−20±2℃ for 96h
	Dry heat		85±2℃ for 96h					85±2℃ for 500h					85±2℃ for 96h
	Damp heat		40±2℃, 90 to 95%RH for 96h					60±2℃, 90 to 95%RH for 500h					40±2℃, 90 to 95%RH for 96h