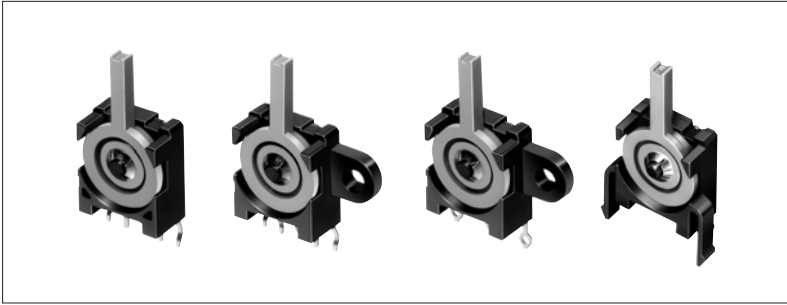


Two-way Detection Type Detector Switch

SSCF Series

Detection in both right / left directions has improved in flexibility in set mechanism design.

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



Car Use

Features

- Long ON travel (single side: about 27°) offers broader design flexibility around the set mechanism.
- Both printed wiring and lead wiring possible.
- Can be mounted on a panel with screws.

Applications

- For detecting trays in DVD players, CD-ROM drives, photo copiers, and VCRs
- For detection mechanisms in sewing machines

Typical Specifications

Items		Specifications
Rating (max.) (Resistive load)		0.1A 12V DC
Contact resistance (Initial performance / After lifetime)		100mΩ max. / 300mΩ max.
Operating force		0.7N max.
Operating life	Without load	50,000 cycles
	With load	50,000 cycles (0.1A 12V DC)

Products Line

Poles	Positions	Changeover timing	Terminal style	Mounting method	Minimum packing unit (pcs.)	Products No.	Drawing No.
1	2	Non-shorting	For PC board	PC board	100	SSCF110100	1
				Screw		SSCF210100	2
			Lead	SSCF210300		4	
			For PC board	PC board with hook		SSCF310100	3

Note

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

For other detailed specifications, see P.301

Dimensions

Unit : mm

No.	Style	PC board mounting hole dimensions
1	<p>For PC board</p>	
2	<p>For PC board (Screw mounting)</p>	

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Dimensions

Unit : mm

No.	Style	PC board mounting hole dimensions
3	<p>For PC board (With hook)</p>	<p>Thickness of board in use : t1.6 only</p>
4	<p>Lead (Screw mounting)</p>	

Terminal Style

Unit : mm

For PC board	Lead
<p>Thickness of board in use : t1.2 , t1.6</p>	<p>Detail of a</p>

Circuit Diagram

For PC board	Lead
<p>(Common) (Common) (Common)</p>	<p>(Common)</p>

Products Specifications

Series		SPVC1	SPVN	SPVG	SPVL	SSCM	SSCF	SPVQ	SREF	
Items										
Operating temperature range		-10°C to +60°C						-40°C to +85°C	-10°C to +60°C	
Rating (max.) (Resistive load)		10mA 16V DC	1mA 5V DC	50mA 20V DC	1mA 5V DC		0.1A 12V DC		1mA 5V DC	
Electrical performance	Initial contact resistance	1Ω max.	2Ω max.	500mΩ max.	2Ω max.		100mΩ max.	500mΩ max.	1Ω max.	
	Insulation resistance	100MΩ min. 100V DC						100MΩ min. 500V DC	100MΩ min. 100V DC	
	Voltage proof	100V AC for 1 min.						500V AC for 1 min.	100V AC for 1 min.	
Mechanical performance	Robustness of terminal	3N for 1 min.	0.5N for 1 min.		1N for 1 min.	0.5N for 1 min.	5N for 1 min.	3N for 1 min.	—	
	Robustness of actuator	10N	5N	10N	5N	0.5N	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								
	Solderability	230±5°C, 3±0.5s								—
	Resistance to soldering heat	Manual soldering	350±10°C, 3 ⁺¹ _{-0.5} s	350±5°C, 3s max.			350±10°C, 3 ⁺¹ _{-0.5} s	300±10°C, 3 ⁺¹ _{-0.5} s	—	
		Dip soldering	260±5°C, 3s max.	—				260±5°C, 5±1s		—
Reflow soldering		—	Please see P.302				—			
Durability	Operating life without load	25,000 cycles 2Ω max.	50,000 cycles 5Ω max.	100,000 cycles 1Ω max.	50,000 cycles 5Ω max.	50,000 cycles 200mΩ max.	300,000 cycles 1Ω max.	150,000 cycles 2Ω max.		
	Operating life with load	(10mA 16V DC) 25,000 cycles 2Ω max.	(1mA 5V DC) 50,000 cycles 5Ω max.	(50mA 20V DC) 100,000 cycles 1Ω max.	(1mA 5V DC) 50,000 cycles 5Ω max.	(0.1A 12V DC) 50,000 cycles 300mΩ max.	(0.1A 12V DC) 300,000 cycles 1Ω max.	(0.1A 5V DC) 150,000 cycles 2Ω max.		
Environmental performance	Cold	-20±2°C for 96h		-40±2°C for 96h	-20±2°C for 96h		-40±2°C for 500h	-20±2°C for 96h		
	Dry heat	85±2°C for 96h						85±2°C for 500h	85±2°C for 96h	
	Damp heat	40±2°C, 90 to 95%RH for 96h						60±2°C, 90 to 95%RH for 500h	40±2°C, 90 to 95%RH for 96h	

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