

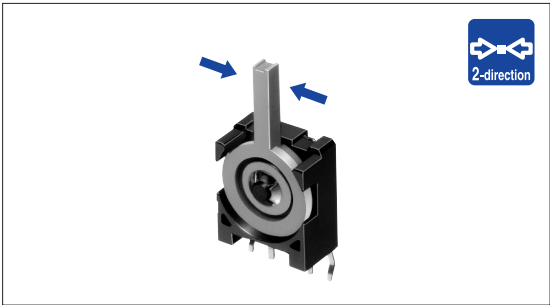
Detector Switch

Two-way Detection Type

SSCF Series



Detection from both left and right directions contributes to improved and flexible design of the set mechanism.



Typical Specifications

Items		Specifications
Rating (max.) / (min.) (Resistive load)		0.1A 12V DC/50μA 3V DC
Contact resistance (Initial /After operating life)		100mΩ max./300mΩ max.
Operating force		0.7N max.
Operating life	Without load	50,000cycles
	With load	50,000cycles (0.1A 12V DC)

Product Line

Poles	Positions	Changeover timing	Terminal type	Mounting method	Minimum order unit (pcs)	Product No.	Drawing No.
1	2	Non shorting	For PC board	PC board	3,000	SSCF110100	1
			Lead	Screw		SSCF210100	2
			For PC board	PC board with hook		SSCF210300	3
						SSCF310100	4

Packing Specifications

Bulk

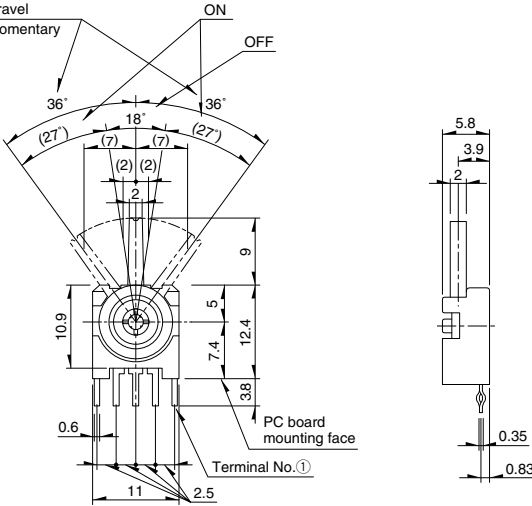
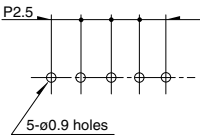
Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
600	3,000	400×270×290

Notes

- Products other than those listed in the above chart are also available. Please contact us for details.
- Please place purchase orders per minimum order unit N (integer).

Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions
1			



Dimensions

Unit:mm

No.	Photo	Style
2	For PC board (Screw mounting)	
3	Lead (Screw mounting)	
4	For PC board (With hook)	
		PC board mounting hole dimensions Thickness of board to be used : t1.6 only

Terminal Type

Unit:mm

For PC board Thickness of board in use : t1.2, t1.6	Lead
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Circuit Diagram

For PC board (Common) (Common) (Common)	Lead (Common)
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List of Varieties (General-purpose Type)

Series		General-purpose Type					
		SSCT	SSCF	SSCM	SPVP	SPVN	SPVS
Photo							
Operation type							
Operating temperature range		-40℃ to +85℃		-10℃ to +60℃	-40℃ to +85℃		
Automotive use				—			
Rating(max.) (Resistive load)		0.1A 12V DC		1mA 5V DC			
Rating(min.) (Resistive load)		50μA 3V DC			100μA 3V DC	50μA 3V DC	
Electrical performance	Initial contact resistance	200mΩ max.	100mΩ max.	2Ω max.	5Ω max.	2Ω max.	
	Insulation resistance	100MΩ min. 250V DC	100MΩ min. 100V DC				
	Voltage proof	250V AC for 1 minute	100V AC for 1 minute				
Mechanical performance	Terminal strength	3N for 1 minute	5N for 1 minute	0.5N for 1 minute			
	Actuator strength	20N	10N	2N	5N		
Durability	Operating life without Load	10,000cycles 500mΩ max.	50,000cycles 300mΩ max.	50,000cycles 5Ω max.	50,000cycles 10Ω max.	50,000cycles 5Ω max.	
	Operating life with Load	(0.1A 12V DC) 10,000cycles 500mΩ max.	(0.1A 12V DC) 50,000cycles 300mΩ max.	(1mA 5V DC) 50,000cycles 5Ω max.	(1mA 5V DC) 50,000cycles 10Ω max.	(1mA 5V DC) 50,000cycles 5Ω max.	
Environmental performance	Cold	-40±2℃ for 500h		-20±2℃ for 96h	-40±2℃ for 500h		
	Dry heat	85±2℃ for 500h		85±2℃ for 96h	85±2℃ for 500h		
	Damp heat	60±2℃, 90 to 95%RH for 500h		40±2℃, 90 to 95%RH for 96h	60±2℃, 90 to 95%RH for 500h		
Dimensions (mm)	W	12.5	11	5	3.5	3.8	3.5
	D	5	5.8	4	5.65	3.6	3.3
	H	11.5	12.4	1.5	1.2	1	
Soldering	Manual soldering	350±5℃, 3s max.	350±10℃, 3 ⁺¹ ₋₀ s	350±5℃, 3s max.			
	Dip soldering	260±5℃, 5±1s		—			
	Reflow soldering	—		Please see P.97			
Number of poles		1					
Operation force		0.7±0.3N	0.7N max.	0.35N max.	0.55N max.	0.35N max.	
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Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

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Note

● marks in "Available for automotive use" indicate that all of the series products can work at the operating temperature range from -40°C to +85°C.