Compact Two-way Detection Type

Low-profile 1.5mm body with detection from both left / right directions





■ Typical Specifications

Ite	ms	Specifications		
Rating (max.)/(min.) (Resistive load)		1mA 5V DC / 50 μA 3V DC		
Contact resistance (Initial / After operating life)		2Ω max. / 5Ω max.		
Operating force		0.35N max.		
Operating life	Without load	50,000cycles		
	With load	50,000cycles (1mA 5V DC)		

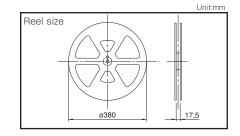
Product Line

Poles Position	Positions	Total travel (mm)	Terminal type	Location lug	Minimum order unit (pcs.)		Product No.
-ules	les Positions Total traver (mm) Terminal type Location lug	Japan	Export	Product No.			
1 2	2	1.57	For PC board	With	2,000	12.000	SSCM110100
	1.57	(Reflow)	Without	3,000	12,000	SSCM120100	

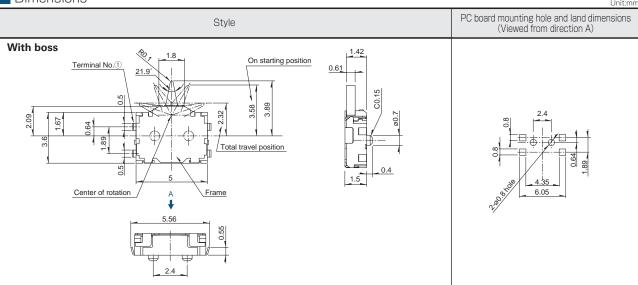
Packing Specifications

Taping

Nun	nber of packages (p	Tape width	Export package measurements	
1 reel	1 reel 1 case /Japan 1 case /export packing		(mm)	(mm)
3,000	6,000	12,000	16	417×409×139

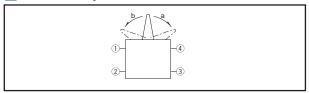


Dimensions

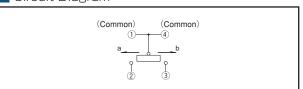


Note Dimensions drawing is for type with location lugs.

Terminal Layout (Viewed from Direction A)



Circuit Diagram



ast Switchin

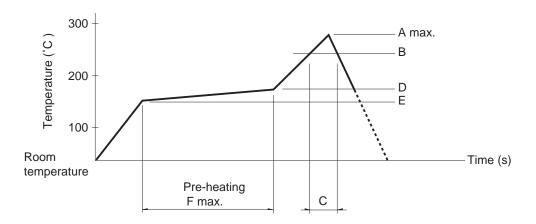
		General-purpose Type					
	Series -	SSCQ	SSCM	SPVL	SPPB		
Photo							
Operation type		Two-way Two-direction type	Two-way	Three-way	One-way Two-way		
	W	3.8	5	5.55	6.3		
Dimensio (mm)	ins D	3.6	4	6.6	3		
	Н	0.9	1.5	1	4.9		
Operating to	emperature range	-10℃ to	o+60℃	−40°C to +85°C			
Autor	notive use	_	_	•	•		
Life cycl	e (availability)	★3	* 3	**3	*3		
Poles	/ Positions	1 / Two-direction type: 2-position each side	1/2	1/1			
	Rating (max.) (Resistive load)		0.1A 30V DC				
	Rating (min.) (Resistive load) 50µA 3V DC		3V DC				
Operating life without load Durability Operating life with load Rating (max.) (Resistive load)		50,000cycles $5Ω$ max.			50,000cycles 2Ω max.		
		50,000cycles 5Ω max			50,000cycles 2Ω max.		
	Initial contact resistance		2Ω max.		lΩ max.		
Electrical performance	Insulation resistance		100MΩ mir	n. 100V DC			
	Voltage proof		100V AC f	or 1 minute			
Mechanical	Terminal strength	0.5N for	0.5N for 1minute		3N for 1minute		
performance	Actuator strength	1N	2N	5N	10N		
	Cold	_20℃ 96h		-40℃ 500h			
Environmental performance Dry heat Damp heat		85°C	96h	85°C 500h			
		40°C, 90 to 95%RH 96h 60°C, 90 to 9			5%RH 500h		
Opera	ation force	0.35N max.					
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Note

Indicates applicability to all products in the series.

Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater.
 2. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 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 (Reflow type)	A (℃) 3s max.	B (℃)	C (s)	D (°C)	E (℃)	F(s)
SPPB	250					
SPVE						
SPVL						
SPVM						
SPVN						
SPVR	260	230	40	180	150	120
SPVS						
SPVT						
SSCM						
SSCQ						
SPVQC	250					

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, surface 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. Prior verification of soldering condition is highly recommended.

■ Reference for Hand Soldering

Series	Soldering temperature	Soldering time
SPVS, SPVN, SPVT, SPVM, SPVR, SPVE, SSCQ, SSCM, SPVL, SSCT, SPVQC	350±5℃	3s max.
SPVQ3, SPVQ6, SPVQ7, SPVQ8, SPVQ9, SSCN, SPVQA	300±10℃	3+1/0s
SPPB (Reflow)	300±5℃	5s max.
SSCF, SPPB (For Lead, Dip)	350±10℃	3+1/0s

■ Reference for Dip Soldering

(For PC board terminal types)

	Ite	ms	Dip soldering		
Series	Preheating temperature	Preheating time	Soldering temperature	Duration of immersion	
SSCT, SPVQ3, SPVQ6, SPVQ7, SPVQ8, SPVQ9, SPVQA	100±10℃	60s max.	260±5℃	5±1s	
SPPW8, SPPB	100 ℃ max.	60s max.	255±5℃	5±1s	
SSCF	_		260±5℃	5±1s	