# ■ Typical Specifications

Detection from both left and right directions contributes to

improved and flexible design of the set mechanism

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

# Product Line

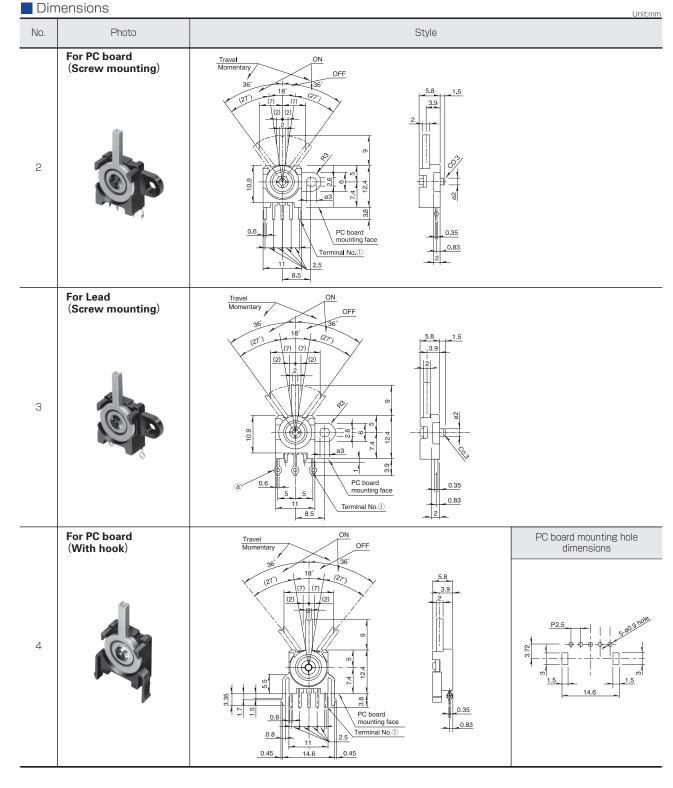
Poles Positions Changeover timing		Terminal type	Mounting method	Minimum order unit (pcs)		Product No.	Drawing No.
		reminar type		Japan	Export	1100000110.	Didwing No.
1 2 Non shorting	For PC board	PC board			SSCF110100	1	
	Non oborting	FOI PC DOGIC	Corow	Screw 600	600 3,000	SSCF210100	2
	INOTI SHOLUING	For Lead	Sciew			SSCF210300	3
		For PC board	PC board with hook			SSCF310100	4

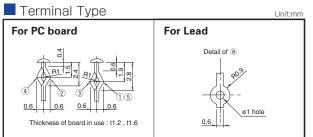
## Packing Specifications

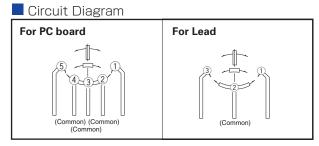
## Bulk

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

Dimensions Unit:mm No. Photo Style PC board mounting hole dimensions For PC board Travel Momentary (7) (2) (2) P2.5 5-ø0.9 hole PC board mounting face Terminal No.1









Series		General-purpose Type						
		SSCT	SSCF	SSCW	SPVQ5	SSCL		
f	Photo							
Oper	ation type	Two-way One-way			Two-way			
	W	12.5	11	13.1	10.0	11		
Dimensio (mm)	ns D	5	5.8	11.35	13.8	16.1		
,	Н	11.5	12.4	5.3	5.8	5.3		
Operating to	emperature range			-40°C to +85°C				
Autor	notive use	•	•	•	•	•		
Life cycl	e (availability)	<b>*</b> 3	*3	*3	*3	<b>★</b> 3		
Poles	/ Positions	1/	/2	1/1	1.	/2		
Ratii (Resi	ng (max.) stive load)			0.1A 12V DC				
	ng (min.) stive load)	50μΑ	3V DC	100μA 3V DC	50μΑ	50μA 5V DC		
Operating life without load		$10.000$ cycles $500$ m $\Omega$ max.	50,000cycles 300mΩ max.	100.000cycles 1Ω max.	300,000cycles 1Ω max.	50,000cycles 1Ω max.		
Durability	Operating life with load Rating (max.) (Resistive load)	10,000cycles 500mΩ max.	50,000cycles 300mΩ max.	100,000cycles 1Ω max.	300,000cycles 1Ω max.	50,000cycles 1Ω max.		
	Initial contact resistance	200mΩ max.	100mΩ max.	500mΩ max.				
Electrical performance	Insulation resistance	100MΩ min. 250V DC	100MΩ min. 100V DC	100MΩ min. 250V DC	100MΩ min. 500V DC	100MΩ min. 100V DC		
	Voltage proof	250V AC for 1minute	100V AC for 1 minute	250V AC for 1minute	500V AC for 1minute	100V AC for 1minute		
Terminal Mechanical strength		3N for 1minute	5N for 1minute		_			
performance Actuator strength		20N	10N	20N		10N		
	Cold	-40°C 500h						
Environmental performance	Dry heat	85°C 500h						
	Damp heat	60℃, 90 to 95%RH 500h						
Opera	ation force	0.7±0.3N	0.7N max.	1N max.	2N max.	0.7N max.		
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# Note

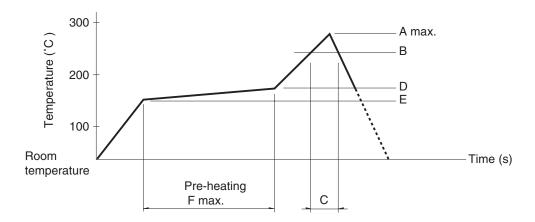
• Indicates applicability to all products in the series.

## Example of Reflow Soldering Condition

- 1. Heating method: Double heating method with infrared heater. 
  2. Temperature measurement: Thermocouple  $\phi$ 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.

**Detector Switches Soldering Conditions** 

3. Temperature profile



Series (Reflow type)	A (℃) 3s max.	B (℃)	C (s)	D (℃)	E (℃)	F(s)
SPPB	250		40			
SPPW8	250	230	35	180	150	120
SPVE	260		40			
SPVL						
SPVM						
SPVN						
SPVR						
SPVS						
SPVT						
SSCM						
SSCQ						
SPVQC, SPVQE	250					

- 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, SPPW8,SSCQ, SSCM, SPVL, SSCT, SPVQC, SPVQE	350±5℃	3s max.	
SPVQ1, 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, SPVQ1, 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

