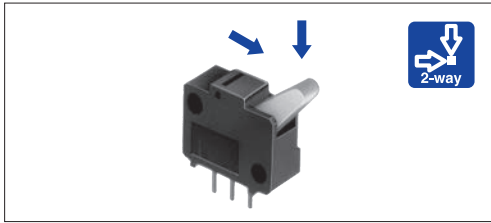


A micro switch type applicable to printed circuit and lead wiring. Can be screwed on panel.



Typical Specifications

Items		Specifications
Rating (max.) / (min.) (Resistive load)		0.1A 12V DC / 50 μ A 3V DC
Contact resistance (Initial /After operating life)		200m Ω max. / 500m Ω max.
Operating force		0.7 \pm 0.3N
Operating life	Without load	10,000cycles
	With load	10,000cycles (0.1A 12V DC)

Product Line

Poles	Positions	Changeover timing	Operation part shape	Terminal type	Minimum order unit (pcs.)		Product No.
					Japan	Export	
1	2	Non shorting	Lever	For PC board	1,000	5,000	SSCTL10600
				For Lead			SSCTL10400

Packing Specifications

Bulk

Number of packages (pcs.)		Export package measurements (mm)
1 case / Japan	1 case / export packing	
1,000	5,000	400 \times 270 \times 290

Dimensions

Unit:mm

Style	PC board mounting hole dimensions (Viewed from direction A)
<p>Lever</p>	<p>Contact changeover timing</p> <p>● Push direction only</p>

Note

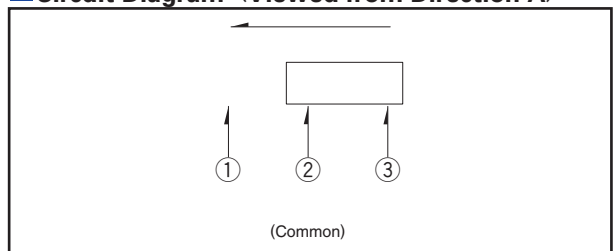
Dimensions drawing is for PC board terminal type.

Terminal Type

Unit:mm

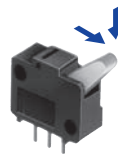
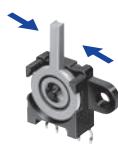








For PC board	For Lead

Circuit Diagram (Viewed from Direction A)



Refer to P.66 for soldering conditions.

■ List of Varieties (General-purpose Type)

Series		General-purpose Type				
		SSCT	SSCF	SSCW	SPVQ5	SSCL
Photo						
Operation type		Two-way			One-way	Two-way
Dimensions (mm)	W	12.5	11	13.1	13.8	11
	D	5	5.8	11.35		16.1
	H	11.5	12.4	5.3	5.8	5.3
Operating temperature range		- 40°C to + 85°C				
Automotive use		●	●	●	●	●
Life cycle (availability)						
Poles / Positions		1 / 2		1 / 1	1 / 2	
Rating (max.) (Resistive load)		0.1A 12V DC				
Rating (min.) (Resistive load)		50μA 3V DC		100μA 3V DC	50μA 5V DC	
Durability	Operating life without Load	10,000cycles 500mΩ max.	50,000cycles 300mΩ max.	100,000cycles 1Ω max.	300,000cycles 1Ω max.	50,000cycles 1Ω max.
	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.
Electrical performance	Initial contact resistance	200m Ω max.	100m Ω max.	500m Ω max.		
	Insulation resistance	100MΩ min. 250V DC	100MΩ min. 100V DC	100M Ω 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
Mechanical performance	Terminal strength	3N for 1minute	5N for 1minute	—	—	—
	Actuator strength	20N	10N	20N		10N
Environmental performance	Cold	- 40 ± 2°C for 500h				
	Dry heat	85 ± 2°C for 500h				
	Damp heat	60 ± 2°C , 90 to 95%RH for 500h				
Operation force		0.7 ± 0.3N	0.7N max.	1N max.	2N max.	0.7N max.
Page		37	38	40	41	42

- Detector Switches Soldering Conditions 66
- Detector Switches Cautions 67

Note

● indicates applicability to all products in the series.

Detector

Slide

Push

Rotary

Encoders

Power

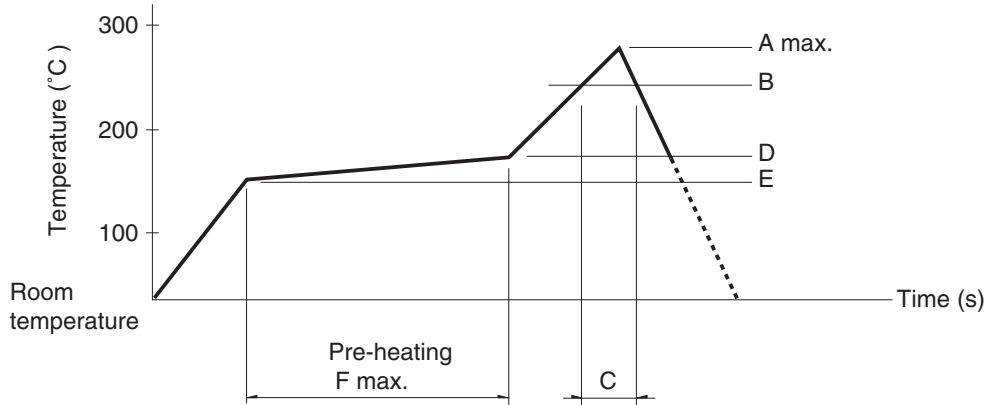
Dual-in-line
Package Type

TACT Switch™

Detector Switches Soldering Conditions

Example of Reflow Soldering Condition

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple 0.1 to 0.2 φ 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 (°C) 3s max.	B (°C)	C (s)	D (°C)	E (°C)	F (s)				
SPPB	250	230	40	180	150	120				
SPPW8			35							
SPVE	260		230				40	180	150	120
SPVL										
SPVM										
SPVN										
SPVP										
SPVR										
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, SPVP, SPVT, SPVM, SPVR, SPVE, SPPW8, SSCQ, SSCM, SPVL, SSCT, SPVQC	350 ± 5°C	3s max.
SPVQ1, SPVQ3, SPVQ6, SPVQ7, SPVQ8, SPVQ9, SSCN, SPVQA	300 ± 10°C	3 + 1 / 0s
SPPB	350 ± 5°C	5s max.
SSCF	350 ± 10°C	3 + 1 / 0s

Reference for Dip Soldering (For PC board terminal types)

Series	Items		Dip soldering	
	Preheating temperature	Preheating time	Soldering temperature	Duration of immersion
SSCT, SPVQ1, SPVQ3, SPVQ6, SPVQ7, SPVQ8, SPVQ9, SPVQA	100 ± 10°C	60s max.	260 ± 5°C	5 ± 1s
SPPW8, SPPB	100°C max.	60s max.	255 ± 5°C	5 ± 1s
SSCF	-		260 ± 5°C	5 ± 1s