

# Detector Switch Micro Switch Type

SSCT Series



A micro switch type applicable to printed circuit and lead wiring.

## Detector

Push

Slide

Rotary

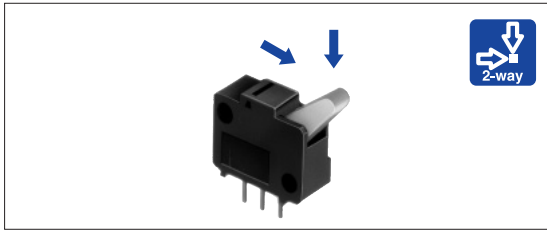
Encoders

Power

Dual-in-line  
Package Type

TACT Switch™

Custom-  
Products



## Typical Specifications

Items		Specifications
Rating (max.) / (min.) (Resistive load)		0.1A 12V DC/50 $\mu$ A 3V DC
Contact resistance (Initial /After operating life)		20m $\Omega$ max./60m $\Omega$ 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 mode	Terminal type	Minimum order unit (pcs)	Product No.
1	2	Non shorting	Lever	For PC board	5,000	SSCTL10600
				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

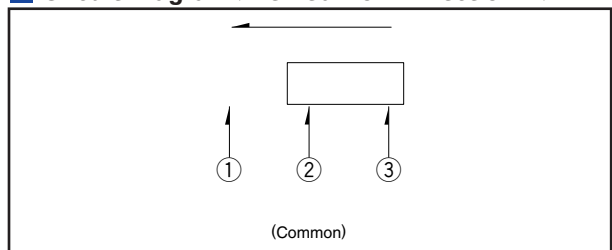
Style	PC board mounting hole dimensions (Viewed from direction A)
<p><b>Lever</b></p>	<p><b>Timing lag diagram</b></p>

## Terminal Type

Unit:mm

For PC board	Lead

## Circuit Diagram (Viewed from Direction A)

















## Notes

- Above dimensions indicate "PC board type terminal" version.
- Please place purchase orders per minimum order unit N (integer).



Automotive  
Use

## List of Varieties (General-purpose Type)

Series	General-purpose Type							
	SSCT	SSCF	SSCM	SPVP	SPVC1	SPVN	SPVS	
<b>Detector</b> Photo								
Push								
Slide								
Rotary								
Encoders								
Power								
Dual-in-line Package Type								
TACT Switch™								
Custom-Products								
<b>Operation type</b>								
<b>Operating temperature range</b>	-40°C to +85°C		-10°C to +60°C		-40°C to +85°C			
<b>Automotive use</b>	●	●	—	●	●	●	●	
<b>Rating (max.) (Resistive load)</b>	0.1A 12V DC		1mA 5V DC		10mA 16V DC	1mA 5V DC		
<b>Rating (min.) (Resistive load)</b>	50μA 3V DC			100μA 3V DC	50μA 3V DC			
<b>Electrical performance</b>	Initial contact resistance	200mΩ max.	100mΩ max.	2Ω max.	5Ω max.	1Ω 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					
<b>Mechanical performance</b>	Terminal strength	3N for 1 minute	5N for 1 minute	0.5N for 1 minute		3N for 1 minute	0.5N for 1 minute	
	Actuator strength	20N	10N	2N	5N	10N	5N	
<b>Durability</b>	Operating life without Load	10,000cycles 500mΩ max.	50,000cycles 200mΩ max.	50,000cycles 5Ω max.	50,000cycles 10Ω max.	25,000cycles 2Ω 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.	(10mA 16V DC) 25,000cycles 2Ω max.	(1mA 5V DC) 50,000cycles 5Ω max.	
<b>Environmental performance</b>	Cold	-40±2°C for 500h		-20±2°C for 96h	-40±2°C for 500h			
	Dry heat	85±2°C for 500h		85±2°C for 96h	85±2°C for 500h			
	Damp heat	60±2°C, 90 to 95%RH for 500h	60±2°C, 90 to 95%RH for 96h	40±2°C, 90 to 95%RH for 96h	60±2°C, 90 to 95%RH for 500h			
<b>Dimensions (mm)</b>	W	12.5	11	5	3.5	6.3	3.8	3.5
	D	5	5.8	4	5.65	7.4	3.6	3.3
	H	11.5	12.4	1.5	1.2	2.8	1	
<b>Soldering</b>	Manual soldering	350±5°C, 3s max.	350±10°C, 3 <sup>+1</sup> / <sub>0</sub> s	350±5°C, 3s max.		350 <sup>+10</sup> / <sub>3</sub> ±5°C, 3s max.	350±5°C, 3s max.	
	Dip soldering	260±5°C, 5±1s		—		260±5°C, 3s max.	—	
	Reflow soldering	—		Please see P.102		—	Please see P.102	
<b>Number of poles</b>	1							
<b>Operation force</b>	0.7±0.3N	0.7N max.	0.35N max.	0.55N max.	0.85N max.	0.35N max.		
<b>Page</b>	61	62	64	65	66	67	69	

- Detector Switches Soldering Conditions .....102
- Detector Switches Cautions .....103