

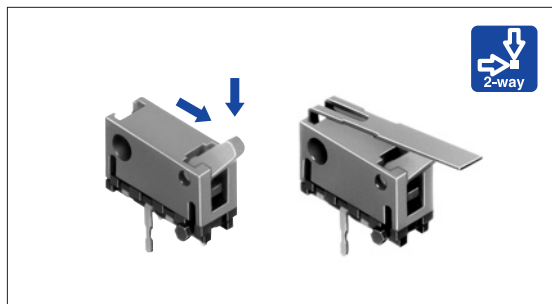
# Detector Switch

## Compact Micro Switch Type

SSCU Series



Micro switch type for detecting very low currents.



### Features

- Screw mountable to panels.

### Applications

- For detecting mechanisms in car navigation systems, car AV equipment, and car CD changers
- For detecting mechanisms in set top boxes and facsimile machines

### Typical Specifications

Items		Specifications
Rating (max.) / (min.) (Resistive load)		0.1A 12V DC/50 $\mu$ A 3V DC
Contact resistance (Initial /After operating life)		70m $\Omega$ max./100m $\Omega$ max.
Operating force		0.5N max.
Operating life	Without load	10,000cycles
	With load	10,000cycles (0.1A 12V DC)

### Product Line

Poles	Positions	Changeover timing	Operation mode	Terminal type	Product No.	Drawing No.
1	2	Non shorting	Lever	For PC board	SSCUL10200	1
			Actuator		SSCUA10200	2

### Note

Products other than those listed in the above chart are also available. Please contact us for details.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line  
Package Type

Multi Control  
Devices

TACT Switch™

Custom-  
Products

Refer to P.67 for product specifications.



# Product Specifications

Items		Series									
		SPPB	SPVE	SPPW8	SPVM	SPVR	SPVF	SSCU	SSCT	SSCF	SSCM
Operating temperature range		-40°C to +85°C	-10°C to +60°C		-40°C to +85°C		-10°C to +60°C	-40°C to +85°C			-10°C to +60°C
Rating (max.) (Resistive load)		0.1A 30V DC			1mA 5V DC			0.1A 12V DC			1mA 5V DC
Electrical performance	Initial contact resistance	1 Ω max.	500mΩ max.	1 Ω max.	2 Ω max.	3 Ω max.	500mΩ max.	70mΩ max.	20mΩ max.	100mΩ max.	2 Ω max.
	Insulation resistance	100MΩ min. 100V DC						100MΩ min. 250V DC		100MΩ min. 100V DC	
	Voltage proof	100V A for 1minute						250V AC for 1minute		100V AC for 1minute	
Mechanical performance	Terminal strength	3N for 1minute	0.5N for 1minute	3N for 1minute	1N for 1minute	0.5N for 1minute	3N for 30 s	3N for 1minute		5N for 1minute	0.5N for 1minute
	Actuator strength	10N	5N	10N	5N	2N	1N	5N	10N		0.5N
	Vibration	10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively									
	Resistance to soldering heat	Manual soldering	300±5°C, 5s max.	350±5°C, 3s max.				300±10°C, 3 <sup>+1</sup> / <sub>0</sub> s	350±5°C, 3s max.	350±10°C, 3 <sup>+1</sup> / <sub>0</sub> s	350±5°C, 3s max.
		Dip soldering	260±5°C, 5±1s		255±5°C, 5±1s			245±5°C, 5±1s		260±5°C, 5±1s	
Reflow soldering		Please see P.70						—————			Please see P.70
Durability	Operating life without load	50,000 cycles 2 Ω max.	50,000 cycles 1 Ω max.	100,000 cycles 2 Ω max.	50,000 cycles 5 Ω max.	100,000 cycles 1 Ω max.	10,000 cycles 100mΩ max.	10,000 cycles 40mΩ max.	50,000 cycles 200mΩ max.	50,000 cycles 5 Ω max.	
	Operating life with load	(0.1A 30V DC) 50,000cycles 2 Ω max.	(0.1A 30V DC) 50,000cycles 1 Ω max.	(0.1A 30V DC) 100,000cycles 2 Ω max.	(1mA 5V DC) 50,000cycles 5 Ω max.	(1mA 5V DC) 100,000cycles 1 Ω max.	(0.1A 12V DC) 10,000cycles 150mΩ max.	(0.1A 12V DC) 10,000cycles 60mΩ max.	(0.1A 12V DC) 50,000cycles 300mΩ max.	(1mA 5V DC) 50,000cycles 5 Ω max.	
Environmental performance	Cold	-20±2°C for 96h					-40±2°C for 96h	-20±2°C for 96h			
	Dry heat	85±2°C for 96h									
	Damp heat	40±2°C, 90 to 95%RH for 96h									

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