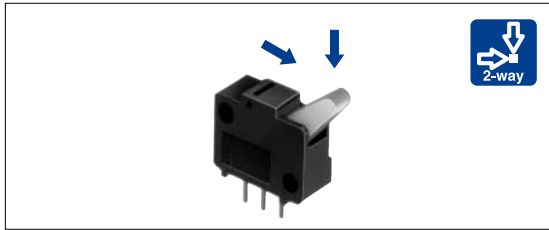


Detector Switch Micro Switch Type

SSCT Series



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



Typical Specifications

| Items | Specifications | |
|---|------------------------------|-----------------------------|
| Rating(max.)(min.) (Resistive load) | 0.1A 12V DC/50 μ A 3V DC | |
| Contact resistance (Initial /After operating life) | 20m max./60m 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 |

Dimensions

Unit:mm

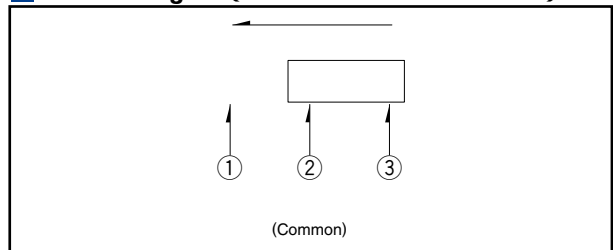
| Style | PC board mounting hole dimensions (Viewed from direction A) |
|---------------------|--|
| <p>Lever</p> | <p>Timing lag diagram</p> <p>Travel position(X) Push direction only</p> |

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(integer).

Detector

Push

Slide

Rotary

Encoders


















Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

List of Varieties (General-purpose Type)

| Series | General-purpose Type | | | | | | | | |
|--------------------------------|--|---|---|---|--|---|---|---|--------|
| | SPPB | SPVE | SPPW8 | SPVM | SPVR | SPVF | SSCU | SSCT | |
| Photo |  |  |  |  |  |  |  |  | |
| Operation type |   |  |  |  |  |  |  |  | |
| Operating temperature range | -40 to +85 | -10 to +60 | | -40 to +85 | | -10 to +60 | -40 to +85 | | |
| Rating (max.) (Resistive load) | 0.1A 30V DC | | | 1mA 5V DC | | | 0.1A 12V DC | | |
| Rating (min.) (Resistive load) | 50μA 3V DC | | 100μA 3V DC | 50μA 3V DC | 100μA 3V DC | 50μA 3V DC | | | |
| Electrical performance | Initial contact resistance | 1 max. | 500m max. | 1 max. | 2 max. | 3 max. | 500m max. | 70m max. 20m max. | |
| | Insulation resistance | 100M min. 100V DC | | | | | | 100M min. 250V DC | |
| | Voltage proof | 100V AC for 1 minute | | | | | | 250V AC for 1 minute | |
| Mechanical performance | Terminal strength | 3N for 1 minute | 0.5N for 1 minute | 3N for 1 minute | 1N for 1 minute | 0.5N for 1 minute | 3N for 30s | 3N for 1 minute | |
| | Actuator strength | 10N | 5N | 10N | 5N | 2N | 1N | 5N 10N | |
| Durability | Operating life without Load | 50,000cycles 2 max. | 50,000cycles 1 max. | 100,000cycles 2 max. | 50,000cycles 5 max. | | 100,000cycles 1 max. | 10,000cycles 100m max. 40m max. | |
| | Operating life with Load | (0.1A 30V DC) 50,000cycles 2 max. | (0.1A 30V DC) 50,000cycles 1 max. | (0.1A 30V DC) 100,000cycles 2 max. | (1mA 5V DC) 50,000cycles 5 max. | | (1mA 5V DC) 100,000cycles 1 max. | (0.1A 12V DC) 10,000cycles 150m max. 60m max. | |
| Environmental performance | Cold | -20 ± 2 for 96h | | | | | -40 ± 2 for 96h | -20 ± 2 for 96h | |
| | Dry heat | 85 ± 2 for 96h | | | | | | | |
| | Damp heat | 40 ± 2 , 90 to 95%RH for 96h | | | | | | | |
| Dimensions (mm) | W | 6.3 | 3.4 | 5 | 2.8 | 3.6 | 9 | 11 12.5 | |
| | D | 3 | | | 4 | 3.5 | 4.2 | 3.5 | 5.8 5 |
| | H | 4.9 | 2.3 | 4 | | 1.5 | 1.2 | 4.5 | 7 11.5 |
| Soldering | Manual soldering | 300 ± 5 , 5s max. | | 350 ± 5 , 3s max. | | | 300 ± 10 , 3 ± 1s 350 ± 5 , 3s max. | | |
| | Dip soldering | 260 ± 5 , 5 ± 1s | | 255 ± 5 , 5 ± 1s | | | 245 ± 5 , 5 ± 1s | 260 ± 5 , 5 ± 1s | |
| | Reflow soldering | Please see P.79 | | | | | | | |
| Number of poles | 1 | | | | | 1.2 | 1 | | |
| Operation force | 0.35N max. | 0.3N max. | | 0.4N max. | 0.35N max. | 0.3N max. | 0.5N max. | 0.7 ± 0.3N | |
| Page | 28 | 34 | 36 | 38 | 40 | 41 | 44 | 45 | |

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-Products

Detector Switches Soldering Conditions79

Detector Switches Cautions80