

Compact, Micro Switch Type Detector Switch

SSCU Series

Micro switch type for detecting very low currents.

- Power
- Push
- Slide
- Rotary
- Encoders
- Jog Shuttle
- Telephone-hook
- Detector**
- Vibration Sensors
- Dual-in-line Package Type
- Multi Control Devices
- TACT



Car Use

Features

- Can be mounted on a panel with screws.

Applications

- For detection mechanisms in car navigation systems, car audio systems, and car CD changers
- For detection mechanisms in STBs and FAX machines

Typical Specifications

| Items | | Specifications |
|---|--------------|-----------------------------|
| Rating (max.) (Resistive load) | | 0.1A 12V DC |
| Contact resistance (Initial performance / After lifetime) | | 70mΩ max. / 100mΩ max. |
| Operating force | | 0.5N max. |
| Operating life | Without load | 10,000 cycles |
| | With load | 10,000 cycles (0.1A 12V DC) |

Products Line

| Poles | Positions | Changeover timing | Operation mode | Terminal style | Minimum packing unit (pcs.) | Products No. | Drawing No. |
|-------|-----------|-------------------|----------------|----------------|-----------------------------|--------------|-------------|
| 1 | 2 | Non-shorting | Lever | For PC board | 100 | SSCUL10200 | 1 |
| | | | Actuator | | | SSCUA10200 | 2 |

Note

Additional switches not included in the above list are also available. Contact us for details.

For other detailed specifications, see P.300

Products Specifications

| Items | | Series | SPPB | SPVE | SPPW8 | SPVM | SPVF | SSCU | SSCT | SPVP |
|---------------------------|-----------------------------------|-----------------------------|--|---|---|---|---|--|---|--|
| | | | | | | | | | | |
| Power | Operating temperature range | | -10°C to +60°C | | | | | | | |
| | Rating (max.) (Resistive load) | | 0.1A 30V DC | 0.1A 12V DC | 0.1A 30V DC | 1mA 5V DC | | 0.1A 12V DC | | 1mA 5V DC |
| Push | Electrical performance | Initial contact resistance | 1Ω max. | 500mΩ max. | 1Ω max. | 2Ω max. | 500mΩ max. | 70mΩ max. | 20mΩ max. | 5Ω max. |
| Slide | | Insulation resistance | 100MΩ min. 100V DC | | | | 100MΩ min. 250V DC | | 100MΩ min. 100V DC | |
| Rotary | | Voltage proof | 100V AC for 1 min. | | | | 250V AC for 1 min. | | 100V AC for 1 min. | |
| Encoders | Mechanical performance | Robustness of terminal | 3N for 1 min. | 0.5N for 1 min. | 3N for 1 min. | 1N for 1 min. | 3N for 30 s | 3N for 1 min. | | 0.5N for 1 min. |
| Jog Shuttle | | Robustness of actuator | 10N | 5N | 10N | 5N | 1N | 5N | 10N | 5N |
| Telephone-hook | | 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 | | | | | | | |
| Detector | Resistance to soldering heat | Solderability | 230±5°C, 3±0.5s | | | | | | | |
| | | Manual soldering | 300±5°C, 5s max. | 350±5°C, 3s max. | 350±10°C, 3 ⁺¹ ₀ s | 350±5°C, 3s max. | 300±10°C, 3 ⁺¹ ₀ s | 350±10°C, 3 ⁺¹ ₀ s | | 350±5°C, 3s max. |
| | | Dip soldering | 260±5°C, 5±1s | — | 255±5°C, 5±1s | — | 260±5°C, 5±1s | — | 260±5°C, 5±1s | — |
| Vibration Sensors | Durability | Reflow soldering | Please see P.300 | | | | — | | Please see P.302 | |
| Dual-in-line Package Type | | Operating life without load | 50,000 cycles 2Ω max. | 50,000 cycles 1Ω max. | 100,000 cycles 2Ω max. | 50,000 cycles 5Ω max. | 100,000 cycles 1Ω max. | 10,000 cycles 100mΩ max. | 10,000 cycles 40mΩ max. | 50,000 cycles 10Ω max. |
| Multi Control Devices | | Operating life with load | (0.1A 30V DC) 50,000 cycles 2Ω max. | (0.1A 12V DC) 50,000 cycles 1Ω max. | (0.1A 30V DC) 100,000 cycles 2Ω max. | (1mA 5V DC) 50,000 cycles 5Ω max. | (1mA 5V DC) 100,000 cycles 1Ω max. | (0.1A 12V DC) 10,000 cycles 150mΩ max. | (0.1A 12V DC) 10,000 cycles 60mΩ max. | (1mA 5V DC) 50,000 cycles 10Ω max. |
| TACT | Environmental performance | Cold | -20±2°C for 96h | -25±2°C for 96h | -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 | | | | | | | |