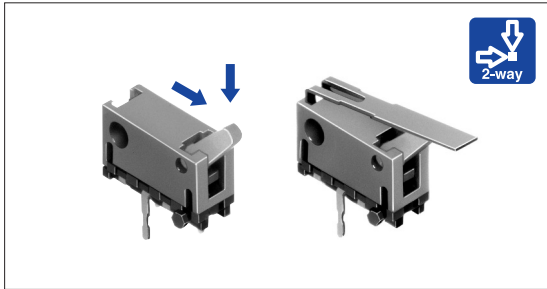


Detector Switch Compact Micro Switch Type

SSCU Series



Micro switch type for detecting very low currents.



Typical Specifications

| Items | Specifications | |
|---|--------------------------------------|----------------------------|
| Rating (max.) / (min.) (Resistive load) | 0.1A 12V DC/50 μ A 3V DC | |
| Contact resistance (Initial /After operating life) | 70m Ω max./100m Ω 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 part shape | Terminal type | Minimum order unit (pcs) | Product No. | Drawing No. |
|-------|-----------|-------------------|----------------------|---------------|--------------------------|-------------|-------------|
| 1 | 2 | Non shorting | Lever | For PC board | 9,000 | SSCUL10200 | 1 |
| | | | Actuator | | | SSCUA10200 | 2 |

Packing Specifications

Bulk

| Number of packages (pcs.) | | Export package measurements (mm) |
|---------------------------|------------------------|----------------------------------|
| 1 case /Japan | 1 case /export packing | |
| 1,800 | 9,000 | 400 × 270 × 290 |

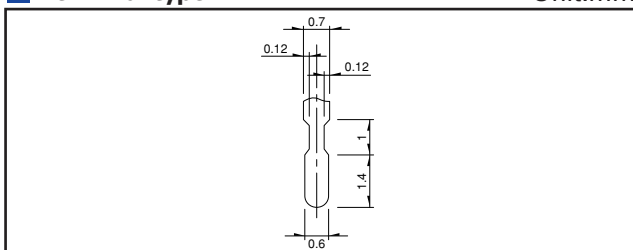
Dimensions

Unit:mm

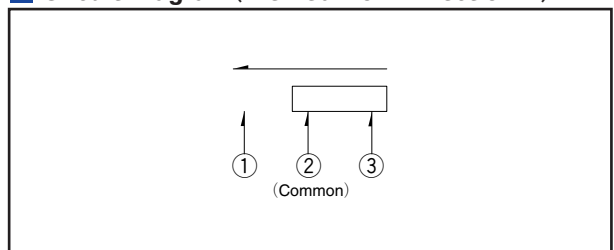
| No. | Photo | Style | PC board mounting hole dimensions (Viewed from direction A) |
|-----|-------|-------|---|
| 1 | | | |
| 2 | | | |

Terminal type

Unit:mm



Circuit Diagram (Viewed from Direction A)



Note

Please place purchase orders per minimum order unit N (integer).

ALPS

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products



Automotive
Use

List of Varieties (General-purpose Type)

| Series | General-purpose Type | | | | | | |
|---------------------------------------|-----------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------|---------------------------------------|----------------------|
| | SPPB | SPVE | SPPW8 | SPVM | SPVR | SSCU | |
| Detector Photo | | | | | | | |
| Push | | | | | | | |
| Slide | | | | | | | |
| Rotary | | | | | | | |
| Encoders | | | | | | | |
| Power | | | | | | | |
| Dual-in-line Package Type | | | | | | | |
| TACT Switch™ | | | | | | | |
| Custom-Products | | | | | | | |
| Operating temperature range | -40°C to +85°C | -10°C to +60°C | | -40°C to +85°C | | | |
| Automotive use | ● | — | — | ● | ● | ● | |
| 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 | 1Ω max. | 500mΩ max. | 1Ω max. | 2Ω max. | 3Ω max. | |
| | Insulation resistance | 100MΩ min. 100V DC | | | | | 100MΩ 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 | |
| | Actuator strength | 10N | 5N | 10N | 5N | 2N | |
| Durability | Operating life without Load | 50,000cycles 2Ω max. | 50,000cycles 1Ω max. | 100,000cycles 2Ω max. | 50,000cycles 5Ω max. | | |
| | Operating life with Load | (0.1A 30V DC) 50,000cycles 2Ω max. | (0.1A 30V DC) 50,000cycles 1Ω max. | (0.1A 30V DC) 100,000cycles 2Ω max. | (1mA 5V DC) 50,000cycles 5Ω max. | (0.1A 12V DC) 10,000cycles 100mΩ max. | |
| Environmental performance | 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 | 40±2°C, 90 to 95%RH for 96h | | 60±2°C, 90 to 95%RH for 500h | | |
| Dimensions (mm) | W | 6.3 | 3.4 | 5 | 2.8 | 3.6 | |
| | D | 3 | | 4 | 3.5 | 5.8 | |
| | H | 4.9 | 2.3 | | 1.5 | 7 | |
| Soldering | Manual soldering | 300±5°C, 5s max. | 350±5°C, 3s max. | | | | |
| | Dip soldering | 255±5°C, 5±1s | — | 255±5°C, 5±1s | — | | |
| | Reflow soldering | Please see P.97 | | | | | — |
| Number of poles | 1 | | | | | | |
| Operation force | 0.35N max. | 0.3N max. | | 0.4N max. | 0.35N max. | 0.5N max. | |
| Page | 45 | 51 | 53 | 55 | 57 | 58 | |

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- Detector Switches Cautions98

Note

●marks in "Available for automotive use" indicate that all of the series products can work at the operating temperature range from -40°C to +85°C.