

Compact and low-profile for primary / secondary switching with compatibility to low level rating



Detector

Slide

Push

Rotary

Power

Dual-in-line Package Type

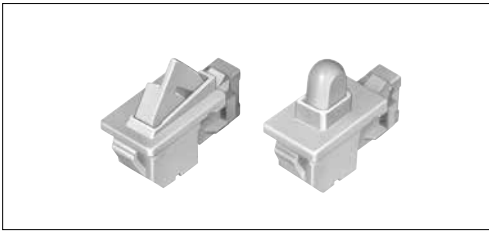
Push Type

Rocker Type

Slide Type

Rotary Type

Ratings and Safety Standards



| Items | Specifications |
|---|-------------------------------|
| Ratings satisfying local electrical appliance and material safety law | 0.5A 125V AC 0.25A 250V AC |
| DC ratings | 5mA 5V DC |

Product Line

| Circuit arrangement | Rating | Total travel (mm) | Operating force | Mounting method | Operation type | Minimum order unit (pcs.) | | Product No. | Drawing No. |
|---------------------|--|-------------------|-----------------|-----------------|----------------|---------------------------|--------|-------------------|-------------|
| | | | | | | Japan | Export | | |
| SPDT | 0.5A 125V AC 0.25A 250V AC 5mA 5V DC | 9 | 3.5±1N | Snap-in | Push | 250 | 1,250 | SDKNA20900 | 1 |
| | | 9.7 | 2±1.5N | | Lever | | | SDKNA20700 | 2 |

Note

Safety standard approval must be obtained as a set.

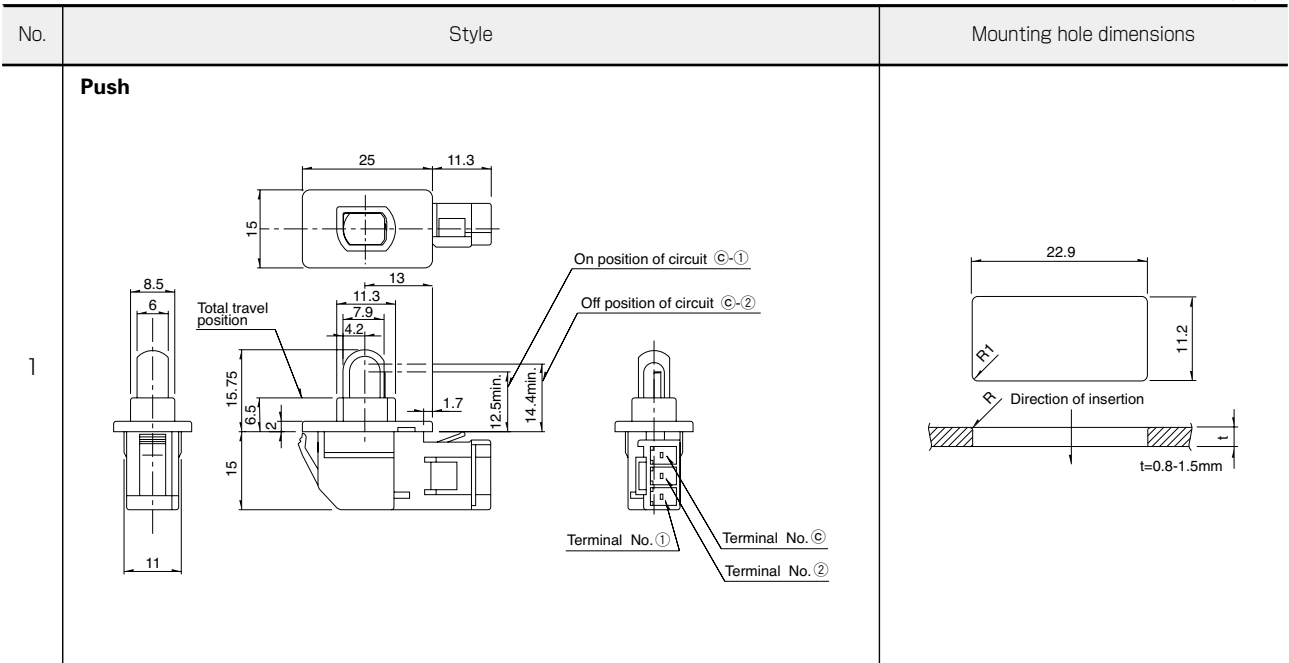
Packing Specifications

Bulk

| Number of packages (pcs.) | | Export package measurements (mm) |
|---------------------------|------------------------|----------------------------------|
| 1 case /Japan | 1 case /export packing | |
| 250 | 1,250 | 389×276×380 |

Dimensions

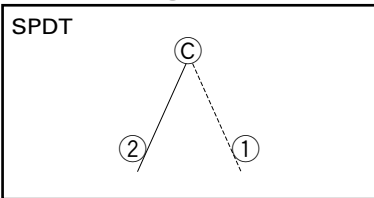
Unit:mm



■ Dimensions

| No. | Style | Mounting hole dimensions |
|-----|---------------------|--------------------------|
| 2 | <p>Lever</p> | |

■ Circuit Diagram



Note

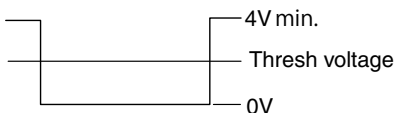
Connector corresponds to [HLP-03V], manufactured by the J.S.T. Mfg. Co., Ltd.

0.5A 125V AC Qualified Type / Cautions

- This product does not have a water-proof or drip-proof construction. Prevent ingress of water into the switch. Avoid using around spilt or flowing. It may cause deterioration of the insulation.
- Do not apply load on the connector or lead wire (code) attached to the product. Using the product with load applied on the connector / lead wire might cause terminal wobble or contact failures.
- ON / OFF signal reading (For DC ratings)
Shall be considered when designing circuit and software as follows.

(1) Setting of thresh voltage

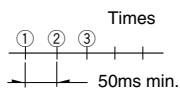
A 4V or larger voltage difference between switch ON and OFF is recommended. Thresh voltage should be set to the center.



(2) ON / OFF signal reading

ON / OFF signal reading intervals should be at a minimum of 50ms with at least 3 repetitions.











Reading of micro-computer



- Verify the performance under actual product conditions before use.

Power Switches

List of Varieties

| Type | | Push | | | Rocker | | |
|-----------------------------|-----------------------|---|--|--|---|---|--|
| Series | | SDKR | SDDH | SDKN | SDDJE ※ 1 ※ 2 | SDDJF ※ 1 ※ 2 | |
| Photo | |  |  |  |  |  | |
| Rating | | 0.5A 250V AC 1A 125V AC 10mA 5V DC | Rating (max.): 4.5A 12V DC (Lamp load: 27W×2) Rating (min.): 10mA 12V DC (Resistive load) | 0.25A 250V AC 0.5A 125V AC 5mA 5V DC | 10AGP 250V AC 6A / 96A 250V~ | 16AGP 250V AC 16 (6) / 250~ | |
| Operating life | | 100,000cycles | 100,000 cycles | 5,200cycles | 10,000cycles | | |
| | | 0.5A 250V AC | | 0.25A 250V AC | 10A 250V AC | 16A 250V AC | |
| Travel (mm) | | 1.5 | 3.7 | 9 9.7 | 3.4 | 5.2 | |
| Features | | Water-proof type With signal circuit | Water-proof (IP68 rating) | — | — | — | |
| Operating temperature range | | -10°C to +85°C | -15°C to +80°C | -20°C to +60°C | -10°C to +55°C | | |
| Automotive use | | — | ● | — | — | — | |
| Life cycle (availability) | |  |  |  |  |  | |
| Electrical performance | Contact resistance | 100mΩ max. (AC switch) 500mΩ max. (DC switch) | 500mΩ max. | 100mΩ max. | 100mΩ max. | | |
| | Insulation resistance | 500MΩ min. 500V DC (AC switch) 100MΩ min. 100V DC (DC switch) | 10MΩ min. 500V DC | 100MΩ min. 500V DC | 500MΩ min. 500V DC | | |
| | Voltage proof | 1000V AC for 1minute (AC switch) 100V AC for 1minute (DC switch) | 500V AC for 1minute | 600V AC for 1minute | 2,000V AC for 1minute | | |
| Mechanical performance | Terminal strength | 5N for 1minute | Slider pull-out strength: 100N min. | 50N for 1minute | 50N for 1minute (Lead terminal) 5N for 1minute (Right-angle terminal) | 60N for 1minute (Lead terminal) 10N for 1minute (Right-angle terminal) | |
| | Actuator strength | Operating direction | 100N | — | 20N | 25N | |
| | | Perpendicular direction | 20N | — | 30N | 25N | |
| Environmental performance | Cold | -20°C 240h | -15°C 96h | -30°C 192h | -20°C 96h | | |
| | Dry heat | 85°C 240h | 80°C 96h | 70°C 192h | 85°C 96h | | |
| | Damp heat | 60°C, 90 to 95%RH 1000h | 40°C, 90 to 95%RH 96h | 40°C, 90 to 95%RH 192h | 40°C, 90 to 95%RH 96h | | |
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| | |
|-------------------------------------|-----|
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Notes

- ※ 1. Dip soldering can be used on SDDJE for PC board terminal and SDDJF right angle terminal types only.
- ※ 2. The operating temperature range can be raised upon request. Please contact us for details.
- Indicates applicability to all products in the series.

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- Изготовление тестовой платы монтаж и пусконаладочные работы.



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