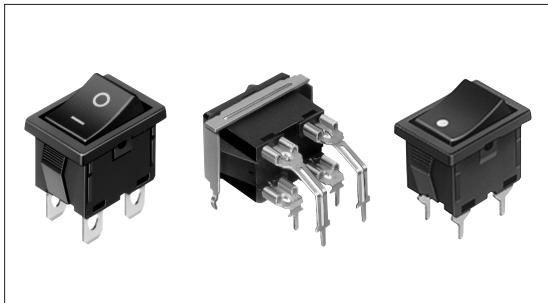


Power Switch 10A 250V AC Qualified Type

SDDJE Series



100A inrush current compatible, compact and large capacity snap-in type with easy mounting.



Ratings and Safety Standards

| Items | Specifications |
|---|---------------------------|
| UL, CSA | 10A 250V AC |
| SEMKO | 6A/96A 250V~, 10 (6)/250~ |
| VDE | 6A/96A 250V~, 10 (6)/250~ |
| BS | 6A/96A 250V~, 10 (6)/250~ |
| Ratings satisfying local electrical appliance and material safety law | 125V 10A± |

Product Line

| Circuit arrangement | Travel (mm) | Operating force | Mounting method | Terminal configuration | Frame | Marking (Knob) | Minimum order unit (pcs.) | Product No. | Drawing No. | |
|---------------------|-------------|-----------------|-----------------|------------------------|---------|----------------|---------------------------|-------------|-------------|---|
| SPST | 3±2N | 3.4 | Snap-in | Lead | Without | Without | 2,000 | SDDJE11600 | 1 | |
| | | | | Right angle | With | | 1,250 | SDDJE12200 | 2 | |
| | | | | Lead | Without | ● mark | 2,000 | SDDJE10300 | 1 | |
| | | | | Right angle | With | | 1,250 | SDDJE12300 | 2 | |
| | | | | Lead | Without | IO mark | 2,000 | SDDJE10700 | 1 | |
| | | | | Right angle | With | | 1,250 | SDDJE12400 | 2 | |
| | | | | Lead | Without | —O mark | 2,000 | SDDJE11200 | 1 | |
| | | | | Right angle | With | | 1,250 | SDDJE12500 | 2 | |
| | | | | Lead | Without | Without | 2,000 | SDDJE31600 | 3 | |
| | | | | Right angle | With | | 1,250 | SDDJE32000 | 5 | |
| DPST | 6±3N | 3.4 | Snap-in | Lead | Without | ● mark | 2,000 | SDDJE30100 | 3 | |
| | | | | For PC board | | | 2,000 | SDDJE32700 | 6 | |
| | | | | Right angle | With | | 2,000 | SDDJE30200 | 4 | |
| | | | | Lead | IO mark | 1,250 | SDDJE32100 | 5 | | |
| | | | | For PC board | | Without | | 2,000 | SDDJE30300 | 3 |
| | | | | Right angle | | | | 2,000 | SDDJE33300 | 6 |
| | | | | Lead | | With | | 1,250 | SDDJE30500 | 4 |
| | | | | For PC board | | | | 2,000 | SDDJE30400 | 5 |
| | | | | Right angle | | Without | | 1,250 | SDDJE30700 | 3 |
| | | | | Lead | | | | 2,000 | SDDJE30700 | 3 |

Packing Specifications

Bulk

| Product No. | Number of packages (pcs.) | | Export package measurements (mm) |
|--|---------------------------|------------------------|----------------------------------|
| | 1 case /Japan | 1 case /export packing | |
| SDDJE11600, SDDJE10300, SDDJE10700, SDDJE11200, SDDJE31600, SDDJE30100, SDDJE32700, SDDJE30200, SDDJE30300, SDDJE33300, SDDJE30500, SDDJE30700 | 400 | 2,000 | 411×328×379 |
| SDDJE12200, SDDJE12300, SDDJE12400, SDDJE12500, SDDJE32000, SDDJE32100, SDDJE30400 | 250 | 1,250 | |

Notes

- The lead terminals are also used as tab terminals#187 (Use a positive lock connector type).
- The lead terminal type can be mounted onto a board. (Manual soldering required)
- Standard products apply Grade V-2 material (Flame Class). For Grade V-0 type please contact us.
- Products other than those listed in the above chart are also available. Please contact our us for details.
- 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

Push
Type

Rocker
Type

Slide
Type

Rotary
Type



Automotive
Use

Detector
Push
Slide
Rotary
Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

Push
Type

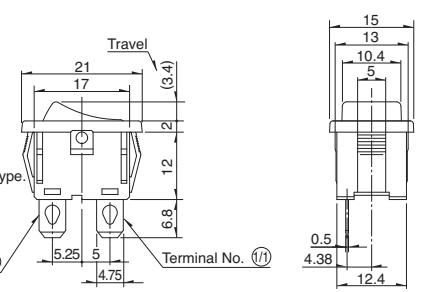
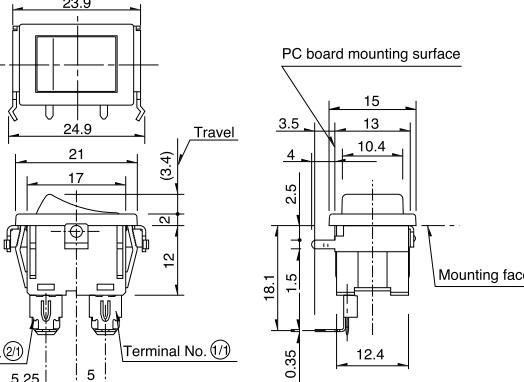
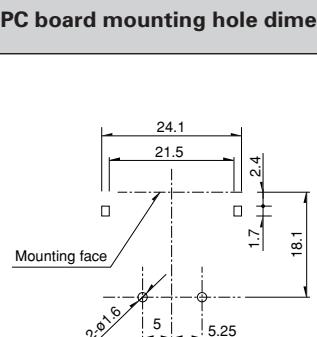
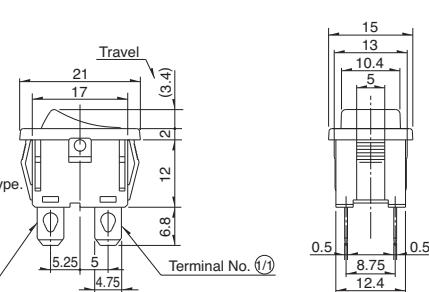
**Rocker
Type**

Slide
Type

Rotary
Type

Unit:mm

Dimensions

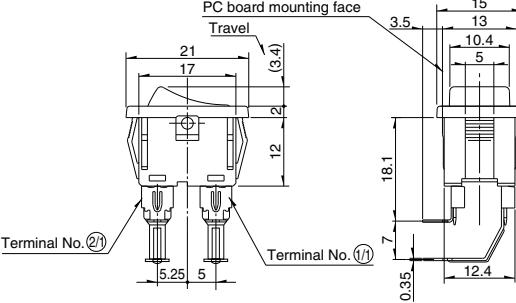
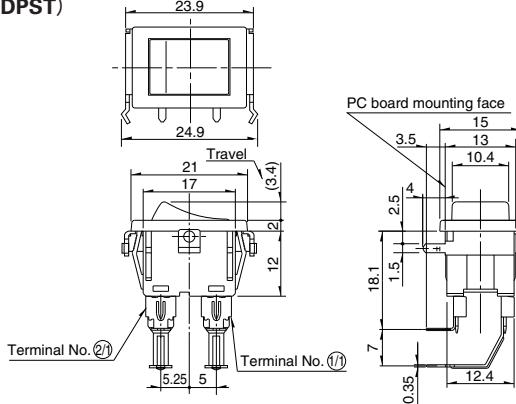
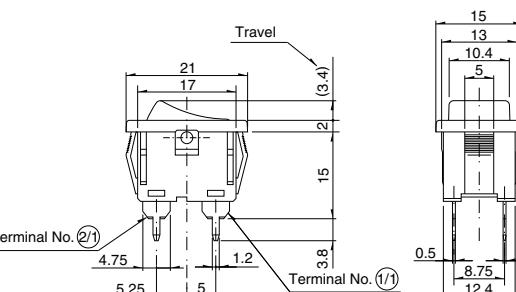
| No. | Configuration (ON position) |
|-----|---|
| 1 | <p>Lead (SPST)</p>  |
| 2 | <p>Right angle (SPST) With frame</p>  <p>PC board mounting hole dimensions</p>  |
| 3 | <p>Lead (DPST)</p>  |



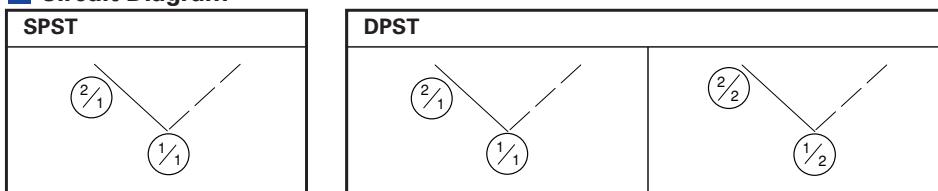
Automotive
Use

Dimensions

Unit:mm

| No. | Style (ON position) | PC board mounting hole dimensions |
|-----|----------------------------------|---|
| 4 | Right angle (DPST) |  |
| 5 | Right angle (DPST) With frame |  |
| 6 | For PC board (DPST) |  |

Circuit Diagram



Automotive
Use

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

Push
Type

Rocker
Type

Slide
Type

Rotary
Type

Mounting Hole Dimensions

Square-shaped Hole

| Thickness of mounting board | Y ₁ | Z |
|-----------------------------|-----------------------------------|-----------------------------------|
| 0.75 to 1.25 | 19.2 ⁰ _{-0.1} | 12.9 ^{+0.1} ₀ |
| 1.25 to 2.00 | 19.4 ⁰ _{-0.1} | |

Detector

Push

Slide

Rotary

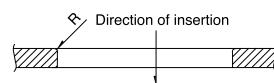
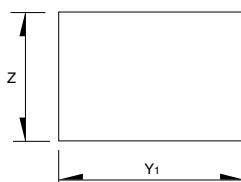
Encoders

Power

Dual-in-line
Package Type

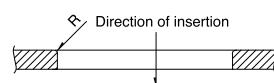
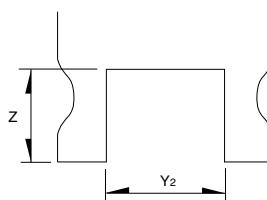
TACT Switch™

Custom-
Products



U-shaped Hole

| Thickness of mounting board | Y ₂ | Z |
|-----------------------------|-----------------------------------|-----------------------------------|
| 0.75 to 1.1 | 19.5 ⁰ _{-0.1} | 12.9 ^{+0.1} ₀ |
| 1.1 to 1.7 | 19.7 ⁰ _{-0.1} | |
| 1.7 to 2 | 19.9 ⁰ _{-0.1} | |

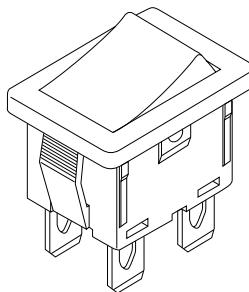


Note

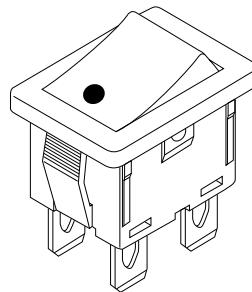
Verify the performance under actual product conditions before use.

Marking Variety

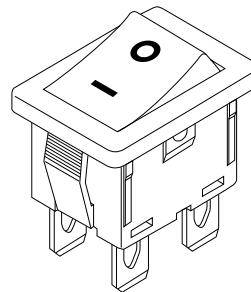
Without marking



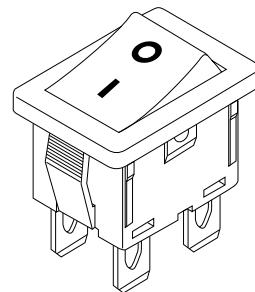
With ● marking



With I, O marking



With -, O marking



Push
Type

Rocker
Type

Slide
Type

Rotary
Type



Automotive
Use

List of Varieties

| Type | | Push | | Rocker | | |
|---------------------------|-----------------------------|---|---|---|---|-----------------|
| Items | Series | SDKN | SDKR | SDDJE | ※1 ※2 | |
| Detector | | | | | | |
| Push | Photo |  |  |  |  | |
| Slide | Travel (mm) | 9 9.7 | 1.5 | 3.5 | 5.2 | |
| Rotary | Remark | — | Water-proof type | — | — | |
| Encoders | Operating temperature range | -20°C to +60°C | -10°C to +85°C | -10°C to +55°C | | |
| Power | Automotive use | — | — | ○ | ○ | |
| Dual-in-line Package Type | Rating | 0.25A 250V AC 0.5A 125V AC 5mA 5V DC | 0.5A 250V AC 1A 125V AC | 10A 250V AC 6A/96A 250V~ | 16A 250V AC 16 (6)/250~ | |
| Custom-Products | Electrical performance | Contact resistance | 100mΩ max. | | | |
| | | Insulation resistance | 500MΩ min. 500V DC | | | |
| | | Voltage proof | 1,000V AC for 1minute | 2,000V AC for 1minute | | |
| Push Type | Mechanical performance | Terminal strength | 50N for 1minute | 5N for 1minute | 50N for 1minute | 60N for 1minute |
| Rocker Type | | Actuator strength | 20N | 100N | 25N | |
| Slide Type | Environmental performance | Perpendicular direction | 20N | | 25N | |
| Rotary Type | | Manual soldering | — | 300±10°C, 3±0.5s | 350±10°C, 3±0.5s | |
| | | Dip soldering | — | 260±5°C, 10±1s | ※260±10°C, 10±1s | |
| | | Durability | 6,000cycles | 100,000cycles | 10,000cycles | |
| | Environmental performance | Operating life | Load : as ratings | Refer to individual product spec. | Load : as ratings | |
| | | Cold | -30±2°C for 96h | -20±2°C for 240h | -20±2°C for 96h | |
| | | Dry heat | 85±2°C for 96h | 85±2°C for 240h | 85±2°C for 96h | |
| | Environmental performance | Damp heat | 40±2°C, 90 to 95%RH for 96h | 60±2°C, 90 to 95%RH for 1000h | 40±2°C, 90 to 95%RH for 96h | |
| | | Page | 249 | 251 | 252 | 256 |

- Power Switches Cautions 264
- Power Switches Safety Standard 265, 266, 267

Notes

1. ※1. Dip soldering can be used on SDDJE For PC board terminal and SDDJF right angle terminal types only.
2. ※2. The operating temperature range for automotive applications can be raised upon request. Please contact us for details.
3. ○ marks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40°C to +85°C.