## Power Switches

### List of Varieties

<table>
<thead>
<tr>
<th>Type</th>
<th>Push</th>
<th>Rocker</th>
<th>Rotary</th>
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<tbody>
<tr>
<td>Series</td>
<td>SDKR</td>
<td>SDDH</td>
<td>SDDJE ⚫ 1</td>
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<td>Photo</td>
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</table>
| Rating     | 0.5A 250V AC
1A 125V AC
10mA 5V DC | Rating (max): 4.5A 12V DC
Lamp load (7W) | 10A 250V AC
6A / 96A 250V AC | AC Switch: 1A / 16A 250V ~
DC Switch: 20mA 12V DC | Encoders: 0.1A 12V DC |
| Operating life | 100,000 cycles | 10,000 cycles | 100,000 cycles | 10,000 cycles |
|              | 0.5A 250V AC | 10A 250V AC | | 100,000 cycles |
| Travel (mm) | 1.5        | 3.7        | 3.4        | Push Switch: 1.85mm
Encoders: 360° (360° Rotation) |
| Features    | Water-proof type
With signal circuit | Water-proof (IP68 rating) | — | AC Switch, DC Switch, With Encoder |
| Operating temperature range | −10°C to +85°C | −15°C to +80°C | −10°C to +55°C | 0°C to +85°C |
| Automotive use | —         | ●         | —         | —         |
| Life cycle (availability) | | | | |
| Electrical performance | | | | |
| Contact resistance | 100mΩ max. (AC switch)
500mΩ max. (DC switch) | 500mΩ max. | 100mΩ max. | AC Switch: 100mΩ max.
DC Switch: 500mΩ max.
Encoder: 1Ω max. |
| Insulation resistance | 500MΩ min. 500V DC
(AC switch)
10MΩ min. 100V DC (DC switch) | 10MΩ min. 100V DC | 500MΩ max. 500V DC | AC Switch: 100MΩ min. 500V DC
DC Switch: 100MΩ min. 100V DC
Encoder: 100MΩ min. 100V DC |
| Voltage proof | 1000V AC for 1 minute
(AC switch)
100V AC for 1 minute
(AC switch) | 500V AC for 1 minute | 2000V AC for 1 minute | AC Switch: 2000V AC for 1 minute
DC Switch: 100V AC for 1 minute
Encoder: 100V AC for 1 minute |
| Terminal strength | 5N for 1 minute | Slider pull-out strength
100N min. | 50N for 1 minute
(Lead terminal)
50N for 1 minute
(Right-angle terminal) | AC Switch: 50N for 1 minute
DC Switch: 50N for 1 minute
Encoder: 50N for 1 minute |
| Actuator strength | Slider direction
100N | — | 25N | 100N |
| | Perpendicular direction
20N | — | 25N | 30N (Retract direction) |
| Mechanical performance | | | | |
| Cold | −20°C  240h | −15°C  96h | −20°C  96h | −40°C  240h |
| Dry heat | 85°C  240h | 80°C  96h | 85°C  96h | 85°C  240h |
| Damp heat | 60°C, 90 to 95%RH
1000h | 40°C, 90 to 95%RH
96h | 40°C, 90 to 95%RH
96h | 40°C, 90 to 95%RH 240h |
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### 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 can be raised upon request. Please contact us for details.
3. ● Indicates applicability to all products in the series.