Features/Benefits

• Positive tactile feeling
• J or G terminations
• Various heights
• IP67

Typical Applications

• Automotive
• Medical instruments
• Industrial electronics
• Network infrastructure and IT
• Elevator

Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.
TERMINALS: J bend & Gullwing type for SMT
SEALING: IP67 except KSC5 (IP50)

Liability Limitation

This datasheet does not provide enough information for applications that require a certain level of quality or safety such as automotive, medical systems, or safety equipment. Please contact customer service for the contractual specification package.

Environmental

Silver         Gold
OPERATING TEMPERATURE:  -40°C to 85°C   -40°C to 125°C
STORAGE TEMPERATURE:   -55°C to 85°C   -55°C to 125°C

Process

SOLDERING: Depending on the application, this component is suited to the following methods:
- Terminals being silver or gold plated over a nickel barrier, the use of slightly activated flux is suitable.
- Soldering on double wave machine for vertical versions: soldering time ≤ 5 sec.
- Cleaning according to typical washing processes.
- Lead free reflow soldering process in accordance with IEC 61760-1.

Electrical

MAXIMUM POWER: 1 VA 0.2 VA
MAXIMUM VOLTAGE: 32 VDC 32 VDC
MINIMUM VOLTAGE: 20 mV 20 mV
MAXIMUM CURRENT: 50 mA 10 mA
MINIMUM CURRENT: 1 mA* 0.1 mA

DIELECTRIC STRENGTH (50 Hz, 1 min.): ≥ 250 Vrms
CONTACT RESISTANCE: ≤ 100mΩ
INSULATION RESISTANCE (100 V): ≥ 10M Ω
BOUNCE TIME: ≤ 1 ms

* Ultra low current with 10 µA - 1 VDC version are available upon request for KSC2 and KSC4

Packaging

Tape and Reel (see series for quantity information)

NOTE: Specifications listed above are for switches with standard options.

KSC Product Range

<table>
<thead>
<tr>
<th>KSC1</th>
<th>KSC2</th>
<th>KSC3</th>
<th>KSC4</th>
<th>KSC5</th>
<th>KSC6</th>
<th>KSC7</th>
<th>KSC8</th>
<th>KSC9</th>
<th>KSC10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without actuator</td>
<td>Soft actuator</td>
<td>Hard actuator</td>
<td>Soft actuator</td>
<td>Hard actuator</td>
<td>Hard actuator</td>
<td>Soft actuator</td>
<td>Hard actuator</td>
<td>Hard actuator</td>
<td>Soft actuator</td>
</tr>
<tr>
<td>H = 2.5 mm</td>
<td>H = 3.5 mm</td>
<td>H = 3.5 mm</td>
<td>H = 5.2 mm</td>
<td>H = 5.6 mm</td>
<td>H = 7.7 mm</td>
<td>H = 4.3 mm</td>
<td>H = 4.9 mm</td>
<td>H = 7.7 mm compatible with button</td>
<td>H = 4.9 mm</td>
</tr>
</tbody>
</table>

Note: KSC Series is subject to variants. Please contact customer service for other options.
KSC Series
Sealed Tact Switch for SMT

J J BEND

G GULLWING

12 MM

16 MM

<table>
<thead>
<tr>
<th></th>
<th>12 mm</th>
<th>16 mm</th>
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</thead>
<tbody>
<tr>
<td>KSC1J</td>
<td>2,000</td>
<td></td>
</tr>
<tr>
<td>KSC2J</td>
<td>2,000</td>
<td></td>
</tr>
<tr>
<td>KSC3J</td>
<td>2,000</td>
<td></td>
</tr>
<tr>
<td>KSC4J &amp; G</td>
<td>1,000</td>
<td>330 mm</td>
</tr>
<tr>
<td>KSC5J &amp; G</td>
<td>1,000</td>
<td>330 mm</td>
</tr>
<tr>
<td>KSC6J &amp; G</td>
<td>950</td>
<td>380 mm</td>
</tr>
<tr>
<td>KSC7J &amp; G</td>
<td>1,000</td>
<td>330 mm</td>
</tr>
<tr>
<td>KSC8J &amp; G</td>
<td>1,000</td>
<td>330 mm</td>
</tr>
<tr>
<td>KSC9J &amp; G</td>
<td>950</td>
<td>380 mm</td>
</tr>
<tr>
<td>KSC10J &amp; G</td>
<td>1,000</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

Dimensions are shown: mm
Specifications and dimensions subject to change
www.ckswitches.com
KSC6 hard actuator 7.7 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newton)</th>
<th>Operating life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC621</td>
<td>1.7 ± 0.5</td>
<td>300,000</td>
<td>0.4 ± 0.2</td>
</tr>
<tr>
<td>KSC631</td>
<td>2.55 ± 0.65</td>
<td>300,000</td>
<td>0.4 ± 0.2</td>
</tr>
<tr>
<td>KSC641</td>
<td>3.4 ± 0.85</td>
<td>300,000</td>
<td>0.4 ± 0.2</td>
</tr>
</tbody>
</table>

Packaging
Switches delivered on continuous tape & reels of 750 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 380 ± 2 mm

How To Order
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

However, please note that all the combinations of these options are not feasible. For any part number different from those listed above, please consult your local representative.