Tactile Switches

**KSR Series**
Subminiature Tact Switch for SMT

**Features/Benefits**
- Saves PCB space
- Range of 4 actuation forces
- G terminations
- N.O. or N.C. contacts
- Detect type available
- Rubber actuator
- IP 50 sealed
- RoHS compliant and compatible

**Specifications & Dimensions**
Specifications and dimensions subject to change.

**Tactile Switches**

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force (Newtons)</th>
<th>Operating life (operations)</th>
<th>Travel</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSR211/213</td>
<td>1.8 (180) ± 20%</td>
<td>100,000</td>
<td>0.25 ± 0.15</td>
</tr>
<tr>
<td>KSR221/223</td>
<td>2.3 (200) ± 25%</td>
<td>200,000</td>
<td>0.3 ± 0.15</td>
</tr>
<tr>
<td>KSR231/233</td>
<td>3.0 (300) ± 25%</td>
<td>200,000</td>
<td>0.35 ± 0.15</td>
</tr>
<tr>
<td>KSR251/253</td>
<td>4.5 (450) ± 25%</td>
<td>100,000</td>
<td>0.5 ± 0.15</td>
</tr>
<tr>
<td>KSR223GNC</td>
<td>2 (200) ± 25%</td>
<td>100,000</td>
<td>0.3 ± 0.15</td>
</tr>
</tbody>
</table>

A detect switch version is available KSR2D3G.
Please see Detect chapter, page F–6.

**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 ITT representative.

**Electrical**

<table>
<thead>
<tr>
<th>Function</th>
<th>Silver</th>
<th>Gold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum power</td>
<td>1 VA</td>
<td>0.2 VA</td>
</tr>
<tr>
<td>Maximum voltage</td>
<td>32 VDC</td>
<td>32 VDC</td>
</tr>
<tr>
<td>Minimum voltage</td>
<td>20 mV</td>
<td>20 mV</td>
</tr>
<tr>
<td>Maximum current DC</td>
<td>50 mA</td>
<td>10 mA</td>
</tr>
<tr>
<td>Minimum current DC</td>
<td>1 mA</td>
<td>1 mA</td>
</tr>
</tbody>
</table>

**Environmental**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Silver</th>
<th>Gold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>-40°C to 85°C</td>
<td>-40°C to 125°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-55°C to 85°C</td>
<td>-55°C to 125°C</td>
</tr>
</tbody>
</table>

**Process**

SOLDERING: Compatible with the lead free soldering profile.

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

For information on specific and custom switches, consult Customer Service Center.

**Packaging**

Switches are delivered on continuous tape, in reels of 2,500 pieces.

**Typical Applications**

- Automotive
- Cellular phones & accessories
- Industrial electronics
- Computers & network equipment

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KSR

TERMINATION

G GULLWING

PAD LAYOUT NORMALLY OPEN

PAD LAYOUT NORMALLY CLOSED

TAPE & REEL

DIRECTION OF FEED

Dimensions shown in: mm (inch)
Specifications and dimensions subject to change