Tactile Switches

B–74

Specifications and dimensions subject to change

www.ckswitches.com

KSC Series
Sealed Tact Switch for SMT

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
OPERATING TEMPERATURE: -40°C to 85°C
STORAGE TEMPERATURE: -55°C to 85°C

Specified Components

Electrical
Silver Gold
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

Spatial 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

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.

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>
<th>KSC11</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>
<td>Hard 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 = 4.4 mm</td>
<td>H = 4.9 mm</td>
<td>H = 7.7 mm</td>
<td>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**

<table>
<thead>
<tr>
<th>12 mm</th>
<th>Pieces</th>
<th>16 mm</th>
<th>Pieces</th>
<th>Reel Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC1J</td>
<td>2,000</td>
<td>KSC1G</td>
<td>2,000</td>
<td>330 mm</td>
</tr>
<tr>
<td>KSC2J</td>
<td>2,000</td>
<td>KSC2G</td>
<td>2,000</td>
<td>330 mm</td>
</tr>
<tr>
<td>KSC3J</td>
<td>2,000</td>
<td>KSC3G</td>
<td>2,000</td>
<td>330 mm</td>
</tr>
<tr>
<td>KSC4J &amp; G</td>
<td>1,000</td>
<td>KSC5J &amp; G</td>
<td>1,000</td>
<td>330 mm</td>
</tr>
<tr>
<td>KSC6J &amp; G</td>
<td>950</td>
<td>KSC7J &amp; G</td>
<td>1,000</td>
<td>380 mm</td>
</tr>
<tr>
<td>KSC8J &amp; G</td>
<td>1,000</td>
<td>KSC9J &amp; G</td>
<td>950</td>
<td>380 mm</td>
</tr>
<tr>
<td>KSC10J &amp; G</td>
<td>1,000</td>
<td>KSC11J</td>
<td>1,000</td>
<td>380 mm</td>
</tr>
</tbody>
</table>

Dimensions are shown: mm
Specifications and dimensions subject to change

www.ckswitches.com
**KSC XA Series**

**Soft Sound Tact Switch**

### Features/Benefits
- New soft sound
- Extended cage
- IP67
- Long life
- J terminations
- Tape & reel

### Typical Applications
- Automotive interior & openings (gear shift paddle, steering wheel, window lifter, seat adjustment modules, trunk & door handle modules)
- Medical & industrial electronics (front panel, instrumentation)

### Type Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Force (N)</th>
<th>Life (cycles)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC XA 35J LFS</td>
<td>3.5 +/-1</td>
<td>1,000,000</td>
<td>0.7 +/-0.2</td>
</tr>
<tr>
<td>KSC XA 40J LFS</td>
<td>4.0 +/-1</td>
<td>1,000,000</td>
<td>0.7 +/-0.2</td>
</tr>
<tr>
<td>KSC XA 55J LFS</td>
<td>5.5 +/-1.1</td>
<td>1,000,000</td>
<td>0.7 +/-0.2</td>
</tr>
<tr>
<td>KSC XA 68J LFS</td>
<td>6.8 +/-1.4</td>
<td>500,000</td>
<td>0.7 +/-0.2</td>
</tr>
<tr>
<td>KSC XA 96J LFS</td>
<td>9.6 +/-2.4</td>
<td>150,000</td>
<td>0.7 +/-0.2</td>
</tr>
</tbody>
</table>

### Operating Force
- **KSC XA**
  - 35: 3.5 N
  - 40: 4.0 N
  - 55: 5.5 N
  - 68: 6.8 N
  - 96: 9.6 N

### Contact Resistance
- 0.1 ohm

### Power
- 0.002 VA min. / 1VA Max.

### Voltage
- 2V min. / 24V Max.

### Current
- 1mA min. / 42mA Max.

### Operating Temperature
- -40°C / +95°C

### Packaging
- In reels of 1,400 pieces.
- Dimensions of reels according to EIA RS481 or IEC 2863. External diameter 380 mm ± 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.

For any part number different from those listed above, please consult your local representative.

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**Dimensions are shown: mm**

Specifications and dimensions subject to change.
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.

For any part number different from those listed above, please consult your local representative.
KSC SLT Series
Long Travel Tact Switch

J J Bend

G Gullwing

TAPE & REEL
KSC1 without actuator 2,5 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newtons)</th>
<th>Operating life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC121</td>
<td>1.8 ± 0.65</td>
<td>200,000</td>
<td>0.3 ± 0.15</td>
</tr>
<tr>
<td>KSC141</td>
<td>3 ± 0.75</td>
<td>200,000</td>
<td>0.3 ± 0.15</td>
</tr>
<tr>
<td>KSC151</td>
<td>5.5 ± 1.4</td>
<td>100,000</td>
<td>0.35 ± 0.15</td>
</tr>
</tbody>
</table>

Packaging
Switches delivered on continuous tape & reels of 2,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

Operating Force
2 1.8 N * (180 grams)
4 3 N * (300 grams)
5 5.5 N (550 grams)

Contact Material
1 Silver
3 Gold

Termination
J J bend
G Gullwing

LFS Lead free compatible, silver plated
LFG Lead free compatible, gold plated
KSC2 Series
Sealed Tact Switch for SMT

KSC2 soft actuator 3,5 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newtons)</th>
<th>Operating life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC201</td>
<td>1.6 ± 0.6</td>
<td>5,000,000</td>
<td>0.3 ± 0.2</td>
</tr>
<tr>
<td>KSC221</td>
<td>2 ± 0.5</td>
<td>500,000</td>
<td>0.35 ± 0.25/- 0.15</td>
</tr>
<tr>
<td>KSC222</td>
<td>2 ± 0.5</td>
<td>1,000,000</td>
<td>0.35 ± 0.25/- 0.15</td>
</tr>
<tr>
<td>KSC241</td>
<td>3.5 ± 0.9</td>
<td>300,000</td>
<td>0.5 ± 0.2</td>
</tr>
<tr>
<td>KSC251</td>
<td>5.55 ± 1.45</td>
<td>300,000</td>
<td>0.5 ± 0.2</td>
</tr>
<tr>
<td>KSC241 SP DELTA</td>
<td>3.55 ± 0.9</td>
<td>300,000</td>
<td>0.5 ± 0.2</td>
</tr>
<tr>
<td>KSC251 SP DELTA</td>
<td>6.2 ± 1.55</td>
<td>100,000</td>
<td>0.6 ± 0.2</td>
</tr>
</tbody>
</table>

Packaging
Switches delivered on continuous tape & reels of 2,000 pieces
Dimensions according to EIA RS-481 / IEC 60286-3 standard
External diameter 330 ± 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.
KSC3 hard actuator 3,5 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newtons)</th>
<th>Operating life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC321</td>
<td>2 ± 0.4</td>
<td>300,000</td>
<td>0.2 ± 0.3/- 0</td>
</tr>
<tr>
<td>KSC341</td>
<td>3 ± 0.75</td>
<td>300,000</td>
<td>0.2 ± 0.3/- 0</td>
</tr>
<tr>
<td>KSC351</td>
<td>5 ± 1</td>
<td>100,000</td>
<td>0.25 ± 0.3/- 0</td>
</tr>
</tbody>
</table>

Packaging
Switches delivered on continuous tape & reels of 2,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

KSC3 Series
Sealed Tact Switch for SMT
KSC4 Series
Sealed Tact Switch for SMT

KSC4 soft actuator 5,2 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>KSC401 50SH</td>
<td>1.45 ± 0.55</td>
<td>5,000,000</td>
<td>0.5 ± 0.25</td>
</tr>
<tr>
<td>KSC411 70SH</td>
<td>1.4 ± 0.35</td>
<td>1,000,000</td>
<td>0.35 ± 0.20</td>
</tr>
<tr>
<td>KSC421 70SH</td>
<td>1.7 ± 0.45</td>
<td>300,000</td>
<td>0.5 ± 0.25</td>
</tr>
<tr>
<td>KSC422 70SH</td>
<td>1.7 ± 0.45</td>
<td>1,000,000</td>
<td>0.5 ± 0.25</td>
</tr>
<tr>
<td>KSC441 70SH</td>
<td>4 ± 1</td>
<td>300,000</td>
<td>0.75 ± 0.25</td>
</tr>
<tr>
<td>KSC442 70SH</td>
<td>4 ± 1</td>
<td>1,000,000</td>
<td>0.75 ± 0.25</td>
</tr>
<tr>
<td>KSC451 70SH</td>
<td>4.25 ± 0.75</td>
<td>300,000</td>
<td>0.8 ± 0.2</td>
</tr>
<tr>
<td>KSC441 SPD</td>
<td>3.5 ± 0.9</td>
<td>300,000</td>
<td>0.7 ± 0.2</td>
</tr>
<tr>
<td>KSC441 ST1</td>
<td>3.4 ± 1</td>
<td>300,000</td>
<td>0.7 ± 0.25</td>
</tr>
<tr>
<td>KSC441 ST2</td>
<td>3.4 ± 1</td>
<td>300,000</td>
<td>0.35 ± 0.20</td>
</tr>
<tr>
<td>KSC461 ST1</td>
<td>6.25 ± 1.75</td>
<td>100,000</td>
<td>1 ± 0.3</td>
</tr>
<tr>
<td>KSC461 ST2</td>
<td>6.25 ± 1.75</td>
<td>300,000</td>
<td>0.5 ± 0.2</td>
</tr>
</tbody>
</table>

Packaging
Switches delivered on continuous tape & reels of 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm

How To Order
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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.
KSC DCT Series
Dual Circuit Technology Tact Switch

Features/Benefits
- SPDT NC-NO function
- Silicone actuator
- J or G terminations
- Tape & reel
- IP67

Specifications and dimensions subject to change

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.
For any part number different from those listed above, please consult your local representative.

Typical Applications
- Automotive
- Medical equipment
- Industrial electronics

<table>
<thead>
<tr>
<th>Type</th>
<th>Force (N)</th>
<th>Operating Life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC441J DCT 70SH LFS</td>
<td>4.75 +/-1.25</td>
<td>300,000</td>
<td>0.85+0.35/-0.25</td>
</tr>
<tr>
<td>KSC441G DCT 70SH LFS</td>
<td>4.75 +/-1.25</td>
<td>300,000</td>
<td>0.85+0.35/-0.25</td>
</tr>
</tbody>
</table>

Packaging
In reels of 1,000 pieces.
Dimensions of reels according to EIA RS481 or IEC 2863.
External diameter 330 ± 2 mm

PCB Layout

Contact Material
1 Silver

Termination
J J bend
G Gull wing

Actuator / Tactile
70SH Silicon 70SH

LFS Lead free compatible, silver plated

Dimensions are shown: mm
Specifications and dimensions subject to change
KSC PF Series
Potting Friendly Tact Switch

Features/Benefits
- Extended Cage
- Silicone actuator
- J or G terminations
- Tape & reel
- IP67

Specifications and dimensions subject to change
www.ckswitches.com

Typical Applications
- Automotive
- Medical equipment
- Industrial electronics

How To Order
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For any part number different from those listed above, please consult your local representative.

Features/Benefits

<table>
<thead>
<tr>
<th>Type</th>
<th>Force (N)</th>
<th>Operating Life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC421G 70SH LFS PF</td>
<td>1.8 +/- 0.45</td>
<td>300,000</td>
<td>0.5 +/- 0.25</td>
</tr>
<tr>
<td>KSC421J 70SH LFS PF</td>
<td>1.8 +/- 0.45</td>
<td>300,000</td>
<td>0.5 +/- 0.25</td>
</tr>
<tr>
<td>KSC422G 70SH LFS PF</td>
<td>1.8 +/- 0.45</td>
<td>1,000,000</td>
<td>0.5 +/- 0.25</td>
</tr>
<tr>
<td>KSC422J 70SH LFS PF</td>
<td>1.8 +/- 0.45</td>
<td>1,000,000</td>
<td>0.5 +/- 0.25</td>
</tr>
<tr>
<td>KSC441G 70SH LFS PF</td>
<td>4 +/- 1</td>
<td>300,000</td>
<td>0.65 +/- 0.25</td>
</tr>
<tr>
<td>KSC441J 70SH LFS PF</td>
<td>4 +/- 1</td>
<td>300,000</td>
<td>0.65 +/- 0.25</td>
</tr>
<tr>
<td>KSC442G 70SH LFS PF</td>
<td>4 +/- 1</td>
<td>1,000,000</td>
<td>0.65 +/- 0.25</td>
</tr>
<tr>
<td>KSC442J 70SH LFS PF</td>
<td>4 +/- 1</td>
<td>1,000,000</td>
<td>0.65 +/- 0.25</td>
</tr>
<tr>
<td>KSC461G 70SH LFS PF</td>
<td>6.25 +/- 1.75</td>
<td>300,000</td>
<td>0.75 +/- 0.25</td>
</tr>
<tr>
<td>KSC461J 70SH LFS PF</td>
<td>6.25 +/- 1.75</td>
<td>300,000</td>
<td>0.75 +/- 0.25</td>
</tr>
<tr>
<td>KSC471G 70SH LFS PF</td>
<td>4 +/- 1</td>
<td>300,000</td>
<td>0.65 +/- 0.25</td>
</tr>
<tr>
<td>KSC471J 70SH LFS PF</td>
<td>4 +/- 1</td>
<td>300,000</td>
<td>0.65 +/- 0.25</td>
</tr>
</tbody>
</table>

Max. potting height: 2.9 mm

Packaging
In reels of 1,000 pieces.
Dimensions of reels according to EIA RS481 or IEC 2863.
External diameter 330 ± 2 mm

Typical Applications
- Automotive
- Medical equipment
- Industrial electronics

How To Order
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For any part number different from those listed above, please consult your local representative.

KSC PF Series
Potting Friendly Tact Switch

Features/Benefits
- Extended Cage
- Silicone actuator
- J or G terminations
- Tape & reel
- IP67

Specifications and dimensions subject to change
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Typical Applications
- Automotive
- Medical equipment
- Industrial electronics

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.

For any part number different from those listed above, please consult your local representative.
Features/Benefits
- Extended cage for mechanical stop
- Silicone actuator
- J termination
- Tape & reel
- IP67

Specifications and dimensions subject to change
www.ckswitches.com

KSC OF Series
Overload Friendly Tact Switch

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.
For any part number different from those listed above, please consult your local representative.

<table>
<thead>
<tr>
<th>Type</th>
<th>Force (N)</th>
<th>Life</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC421J 70SH LFS OF</td>
<td>1.65 +/- 0.45</td>
<td>300,000</td>
<td>0.5 +/- 0.25</td>
</tr>
<tr>
<td>KSC441J 70SH LFS OF</td>
<td>4.0 +/- 1.0</td>
<td>300,000</td>
<td>0.65 +/- 0.3</td>
</tr>
</tbody>
</table>

- Life time is 300,000 cycles at 20N actuation force
- The extended cage can be used as mechanical stop for the activation button
- Overload value reaches 200N (one time)

Packaging
In reels of 1,000 pieces
Dimensions of reels according to EIA RS481 or IEC 2863
External diameter 330 ± 2 mm

Typical Applications
- Industrial electronics
- Consumer
- Medical equipment
- Automotive interior

Contact Material
1 Silver

Termination
J J bend

Actuator / Tactile
70SH Silicone 70SH

LFS Lead free compatible, silver plated

Specifications and dimensions subject to change
Dimensions are shown: mm
**Features/Benefits**
- New combination of dome/support
- Silicone actuator
- J terminations
- Tape & reel
- IP67

**Typical Applications**
- Elevator
- Game controllers/ Drones
- Industrial applications
- Medical applications

**New combination of dome/support**

**Silicone actuator**

**J terminations**

**Tape & reel**

**IP67**

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**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.
For any part number different from those listed above, please consult your local representative.

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**KSC2 TE Series**

**Tireless Endurance Tact Switch**

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**Life time under electrical load (24 V, 1.3 mA)**

**Packaging**

In reels of 2,000 pieces
Dimensions of reels according to EIA RS481 or IEC 2863
External diameter 330 ± 2 mm

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**Typical Applications**

- Elevator
- Game controllers/ Drones
- Industrial applications
- Medical applications

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**KSC2 TE Series**

Tireless Endurance Tact Switch

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**Features/Benefits**

- New combination of dome/support
- Silicone actuator
- J terminations
- Tape & reel
- IP67

**Typical Applications**

- Elevator
- Game controllers/ Drones
- Industrial applications
- Medical applications

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**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.
For any part number different from those listed above, please consult your local representative.

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**Contact Material**

1. Silver

**Termination**

J J bend

**Force**

- 0 1.60 N
- 3 2.80 N
- 4 4.00 N

**LFS** Lead free compatible, silver plated

---

**Dimensions are shown: mm**

Specifications and dimensions subject to change

www.ckswitches.com
Features/Benefits

- New combination of dome/support
- Silicone actuator
- J terminations
- Tape & reel
- IP67

Typical Applications

- Elevator
- Game controllers/ Drones
- Industrial applications
- Medical applications

<table>
<thead>
<tr>
<th>Type</th>
<th>Force (N)</th>
<th>Life</th>
<th>Travel (mm)</th>
<th>Electrical Height ON (mm) (from PCB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC4 TE 01J LFS</td>
<td>1.60 ±0.6</td>
<td>10,000,000</td>
<td>0.25 ±0.2</td>
<td>4.9 ±0.2</td>
</tr>
<tr>
<td>KSC4 TE 31J LFS</td>
<td>2.80 ±0.7</td>
<td>5,000,000</td>
<td>0.35 ±0.2</td>
<td>4.8 ±0.2</td>
</tr>
<tr>
<td>KSC4 TE 41J LFS</td>
<td>4.00 ±1.0</td>
<td>5,000,000</td>
<td>0.60 ±0.2</td>
<td>4.6 ±0.2</td>
</tr>
</tbody>
</table>

Life time under electrical load (24 V, 1.3 mA)

Packaging

In reels of 1,400 pieces
Dimensions of reels according to EIA RS481 or IEC 2863
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.

For any part number different from those listed above, please consult your local representative.
KSC5 Series
Tact Switch with Rocker Option for SMT

KSC5 hard actuator 5,6 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force axial FA N (grams)</th>
<th>Operating force lateral FL N (grams) ±30%</th>
<th>Travel to make axial (mm)</th>
<th>Travel to make lateral (mm)</th>
<th>Life expectancy cycles, axial</th>
<th>Life expectancy cycles, lateral</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC521</td>
<td>2 ± 0.5</td>
<td>1.2 - 2.6</td>
<td>0.25 ± 0.15</td>
<td>0.5 ± 0.25</td>
<td>100,000</td>
<td>10,000</td>
</tr>
<tr>
<td>KSC541</td>
<td>3 ± 0.75</td>
<td>1.8 - 3.8</td>
<td>0.25 ± 0.15</td>
<td>0.5 ± 0.25</td>
<td>100,000</td>
<td>10,000</td>
</tr>
</tbody>
</table>

Packaging
Switches delivered on continuous tape & reels of 1,000 pieces, dimensions according to EIA RS-481/IEC 60286-3 standard
External diameter 330 ± 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.
KSC6 hard actuator 7.7 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newtons)</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 950 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.

Contact Material
1 Silver
3 Gold

Operating Force
2 1.7 N (170 grams)
3 2.55 N (255 grams)
4 3.4 N (340 grams)

Termination
J J bend
G Gullwing

LFS Lead free compatible, silver plated
LFG Lead free compatible, gold plated

See mechanical chart above to confirm specifications
KSC7 Series
Sealed Tact Switch for SMT

KSC7 soft actuator 4.4 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newtons)</th>
<th>Operating life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC701</td>
<td>1.6 ± 0.6</td>
<td>5,000,000</td>
<td>0.3 ± 0.2</td>
</tr>
<tr>
<td>KSC721</td>
<td>2.25 ± 0.55</td>
<td>300,000</td>
<td>0.3 ± 0.15</td>
</tr>
<tr>
<td>KSC741</td>
<td>3.9 ± 1</td>
<td>300,000</td>
<td>0.4 ± 0.2</td>
</tr>
</tbody>
</table>

Packaging
Switches delivered on continuous tape & reels of 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

<table>
<thead>
<tr>
<th>K</th>
<th>S</th>
<th>C</th>
<th>7</th>
<th>Operating Force</th>
<th>LFS</th>
<th>LFG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0 1.6 N (160 grams)</td>
<td>Lead free compatible, silver plated</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 2.25 N (225 grams)</td>
<td>Lead free compatible, gold plated</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 3.9 N (390 grams)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact Material
1 Silver
3 Gold

See mechanical chart above to confirm specifications

Operating Force
Termination
J J bend
G Gullwing

Packaging Dimensions
First Angle Projection
Dimensions are shown: mm
Specifications and dimensions subject to change
www.ckswitches.com
KSC8 hard actuator 4.9 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newtons)</th>
<th>Operating life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC821</td>
<td>3.15 ± 0.75</td>
<td>300,000</td>
<td>0.65 ± 0.2</td>
</tr>
<tr>
<td>KSC821 OL</td>
<td>1.7 ± 0.5</td>
<td>300,000</td>
<td>0.4 ± 0.2</td>
</tr>
<tr>
<td>KSC831 OL</td>
<td>2.55 ± 0.65</td>
<td>300,000</td>
<td>0.4 ± 0.2</td>
</tr>
<tr>
<td>KSC841 OL</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 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

Contact Material
1 Silver
2 Gold

Operating Force
2 1.7 / 3.15 N (170/315 grams)
3 2.55 N (255 grams)
4 3.4 N (340 grams)
See mechanical chart above to confirm specifications

Option
NONE Long travel
OL Short travel

Termination
J J bend
G Gullwing

LFS Lead free compatible, silver plated
LFG Lead free compatible, gold plated
KSC9 hard actuator 7,7 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newtons)</th>
<th>Operating life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC921</td>
<td>1.7 ± 0.5</td>
<td>300,000</td>
<td>0.4 ± 0.2</td>
</tr>
<tr>
<td>KSC931</td>
<td>2.25 ± 0.65</td>
<td>300,000</td>
<td>0.4 ± 0.2</td>
</tr>
<tr>
<td>KSC941</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 950 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.
For any part number different from those listed above, please consult your local representative.
KSC10 soft actuator 4,9 mm high

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating force FA (Newtons)</th>
<th>Operating life (operations)</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC1001</td>
<td>1.45 ± 0.55</td>
<td>5,000,000</td>
<td>0.45 ± 0.25</td>
</tr>
</tbody>
</table>

Packaging
Switches delivered on continuous tape & reels of 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 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.

Operating Force
0 1.45 N (145 grams)

See mechanical chart above to confirm specifications

Contact Material
1 Silver

Termination
J J bend
G Gullwing

LFS Lead free compatible, silver plated

Note: KSC10 offered with yellow actuator as standard, hardness 55 Shore
KSC11 Series
Sealed Tact Switch for SMT

Features/Benefits
• Hard actuator
• Long life
• Positive tactile feeling
• IP67 sealed
• SMT

Typical Applications
• Gaming/ Drones
• Industrial
• Medical
• High-end consumer
• Avionics

Specification
FUNCTION: Normally open
CONTACT TYPE: SPST NO
TERMINALS: J bend for SMT
CONTACT MATERIAL: Silver plated

Environmental
OPERATING TEMPERATURE: -40˚C to 85˚C

Mechanical

<table>
<thead>
<tr>
<th>Type</th>
<th>Force (N)</th>
<th>Life</th>
<th>Travel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSC1101J LFS</td>
<td>1.60 ±0.4</td>
<td>3,000,000</td>
<td>0.20 ±0.1</td>
</tr>
<tr>
<td>KSC1131J LFS</td>
<td>3.20 ±0.6</td>
<td>2,000,000</td>
<td>0.25 ±0.15</td>
</tr>
<tr>
<td>KSC1151J LFS</td>
<td>5.00 ±1.0</td>
<td>1,000,000</td>
<td>0.40 ±0.15</td>
</tr>
</tbody>
</table>

Electrical
MAXIMUM POWER: 1 VA
MIN. / MAX. VOLTAGE: 0.02V / 32V
MIN. / MAX. CURRENT: 1 mA / 50 mA
DIELECTRIC STRENGTH: 250 Vrms
CONTACT RESISTANCE: ≤ 100 mΩ
INSULATION RESISTANCE: (100V): 1000 MΩ
BOUNCE TIME: ≤ 5 ms

Soldering
This component is suited to the following methods:
– Cleaning according to typical washing processes
– Lead free reflow soldering process in accordance with IEC 61760-1

Packaging
In reels of 1,700 pieces
Width of carrier tape: 16 mm
Dimensions of reels: 380 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.
For any part number different from those listed above, please consult your local representative.

Operating Force
- 01 1.6 N
- 31 3.2 N
- 51 5.0 N

Termination
- J J bend

LFS Lead free compatible, silver plated

Dimensions are shown: mm
Specifications and dimensions subject to change

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C&K
26 May 22

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KSC11 Series
Sealed Tact Switch for SMT

Dimensions are shown: mm
Specifications and dimensions subject to change

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NEW
26 May 22