

# KSC V2 Series

## Side Actuated Sealed Tact Switch

### Features/Benefits

- Full SMD side actuated
- Haptic adaptability
- Pin in paste terminations
- Tape & reel
- IP67

### Typical Applications

- Automotive
- Industrial electronics
- Network equipment
- Telecommunications



### Specification

FUNCTION: momentary action  
 CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.  
 TERMINALS:  
 2 pin in paste signal terminals  
 3 SMD ground terminals

### Mechanical

Type	Force (N)	Operating Life (operations)	Travel (mm)
KSC201 V2 LFS	1.6 ± 0.6	1,000,000	0.5 ± 0.2
KSC421 V2 70SH LFS	1.55 ± 0.45	300,000	0.45 ± 0.25
KSC441V2 70SH SP DELTA LFS	3.5 ± 1.0	300,000	0.7 ± 0.2
KSC443V2 SP DELTA LFG	3.5 ± 1.0	300,000	0.7 ± 0.2
KSC421 V2 RT LFS	1.8 ± 0.5	300,000	0.5 ± 0.2
KSC423 V2 RT LFG	1.8 ± 0.5	300,000	0.5 ± 0.2
KSC441 V2 RT LFS	3.4 ± 1.0	300,000	0.35 ± 0.2

NOTE: Basic version is based on KSC441V2 SPDELTA LFS.  
 Other configurations of haptics are available upon demand.

MISUSE OVERLOAD: 40N with back support  
 SHEAR FORCE: 10N without back support

### 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

DIELECTRIC STRENGTH (50 Hz, 1 min.): ≥ 250 Vrms  
 CONTACT RESISTANCE: ≤ 100 mΩ  
 INSULATION RESISTANCE (100 V, initial stage): > 10<sup>9</sup> Ω  
 BOUNCE TIME: < 1 ms

### 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:

- Cleaning according to typical washing processes.
- Lead free reflow soldering process in accordance with IEC 61760-1.

TERMINALS: pin in paste, silver or gold plated  
 TOP PLATE: tin plated  
 MSL level: 1  
 Vacuum pick head mandatory

### Packaging

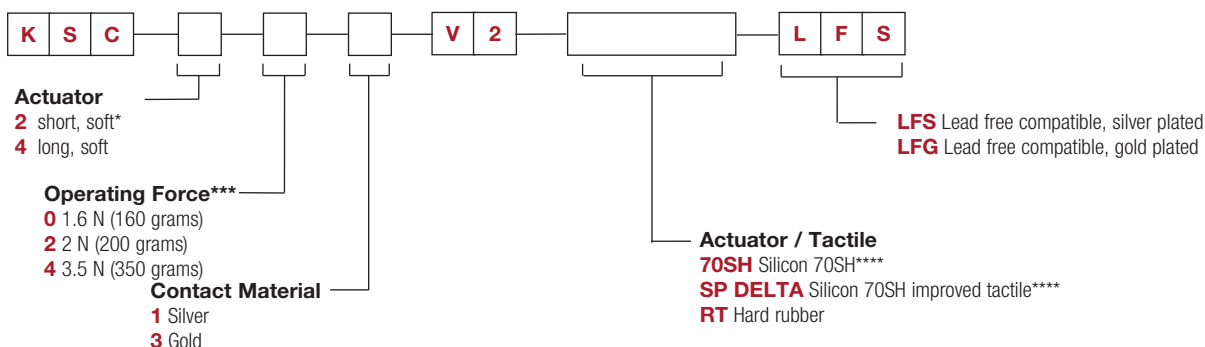
In reels of 800 pieces.  
 Dimensions of reels according to EIA RS481 or IEC 2863.  
 External diameter 380 mm ± 2 mm.

NOTE: This product is designed and manufactured for general electronic devices.  
 For systems where reliability and safety are required, please contact your sales representative to secure product integration and function to secure usage.

### How To Order

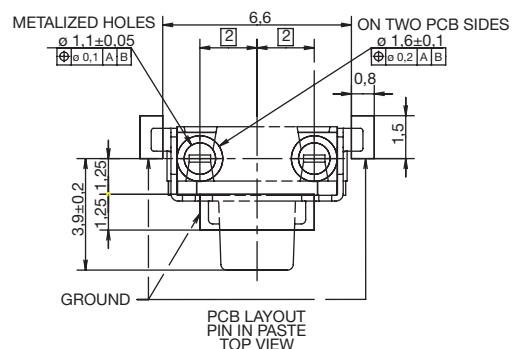
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

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



\* KSC2 version available upon demand  
 \*\*\* Force available upon demand (variant version)  
 \*\*\*\* Available for KSC4 only

## Tactile Switches



Technical drawing of a mechanical part, showing a side view and two section views (SECTION C-C and SECTION A-A).

**Side View Dimensions:**

- Overall width:  $16 \pm 0.3$
- Top flange width:  $7.1 \pm 0.1$
- Bottom flange width:  $9.3 \pm 0.1$
- Top flange thickness:  $1.75 \pm 0.1$
- Bottom flange thickness:  $7.5 \pm 0.1$
- Distance from top flange to first hole center:  $4 \pm 0.1$
- Distance between hole centers:  $2 \pm 0.1$
- Hole diameter:  $\varnothing 1.5 \pm 0.1$
- Distance from last hole center to right edge:  $12 \pm 0.1$

**SECTION C-C:**

- Section line C-C is indicated.
- Section view shows the internal structure of the part.
- Dimensions for the section view include:
  - Top flange thickness:  $5$
  - Internal cavity width:  $17.7$
  - Internal cavity depth:  $28$
  - Internal cavity width at the bottom:  $2.85$
  - Internal cavity width at the bottom:  $3.7$
  - Internal cavity width at the bottom:  $5.35$
  - Internal cavity width at the bottom:  $4.1$
  - Internal cavity width at the bottom:  $7$
  - Internal cavity width at the bottom:  $4.5$

**SECTION A-A:**

- Section line A-A is indicated.
- Section view shows the internal structure of the part.
- Dimensions for the section view include:
  - Top flange thickness:  $5.1 \pm 0.1$
  - Internal cavity width:  $70^\circ$
  - Internal cavity width:  $50^\circ$
  - Internal cavity width:  $20^\circ$
  - Internal cavity width:  $30^\circ$

A schematic diagram of a rigid back support. It shows a cross-section of a person's back and torso. A rectangular box labeled "Rigid back support" is positioned behind the lower back, with a vertical line indicating its placement. The support is connected to a horizontal cylinder, which is further connected to a vertical rod. The entire assembly is mounted on a base.

