

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)

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 |

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.

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

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

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 |

Packaging

Tape and Reel (see series for quantity information)

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

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.

KSC Product Range

| KSC1 | KSC2 | KSC3 | KSC4 | KSC5 | KSC6 | KSC7 | KSC8 | KSC9 | KSC10 |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------------|---------------|
| Without actuator | Soft actuator | Hard actuator | Soft actuator | Hard actuator | Hard actuator | Soft actuator | Hard actuator | Hard actuator | Soft actuator |
| H = 2.5 mm | H = 3.5 mm | H = 3.5 mm | H = 5.2 mm | H = 5.6 mm | H = 7.7 mm | H = 4.3 mm | H = 4.9 mm | H = 7.7 mm compatible with button | H = 4.9 mm |
| IP67 | IP67 | IP67 | IP67 | IP50 | IP67 | IP67 | IP67 | IP67 | IP67 |



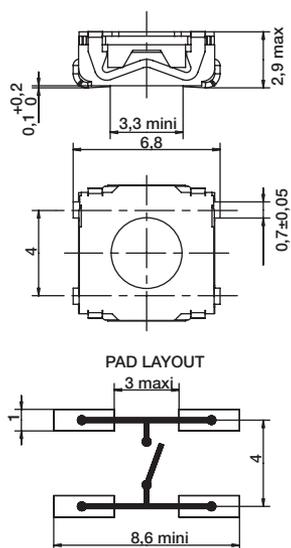
Note: KSC Series is subject to variants. Please contact customer service for other options.

KSC Series Sealed Tact Switch for SMT

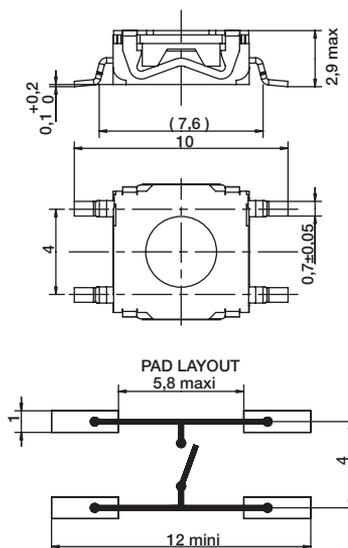
Tactile Switches

B

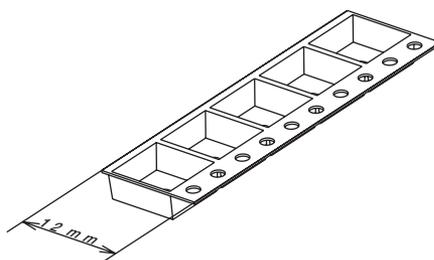
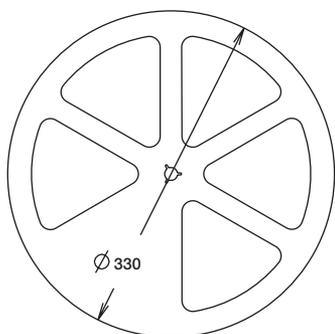
J BEND



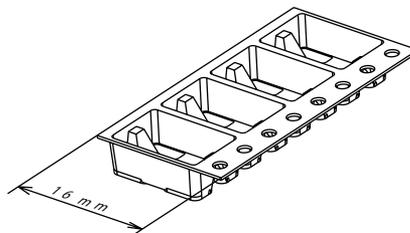
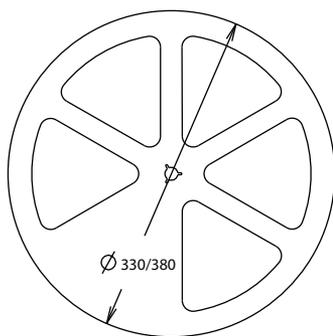
G GULLWING



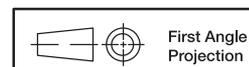
12 MM



16 MM



| 12 mm | Pieces | 16 mm | Pieces | Reel Diameter |
|-------|--------|------------|--------|---------------|
| KSC1J | 2,000 | KSC1G | 2,000 | 330 mm |
| KSC2J | 2,000 | KSC2G | 2,000 | 330 mm |
| KSC3J | 2,000 | KSC3G | 2,000 | 330 mm |
| | | KSC4J & G | 1,000 | 330 mm |
| | | KSC5J & G | 1,000 | 330 mm |
| | | KSC6J & G | 950 | 380 mm |
| | | KSC7J & G | 1,000 | 330 mm |
| | | KSC8J & G | 1,000 | 330 mm |
| | | KSC9J & G | 950 | 380 mm |
| | | KSC10J & G | 1,000 | 330 mm |



First Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

KSC6 Series Sealed Tact Switch for SMT



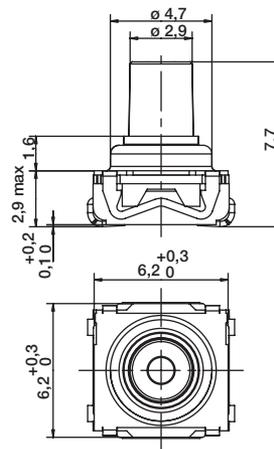
B

Tactile Switches

KSC6 hard actuator 7,7 mm high



| Type | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|--------|------------------------------|-----------------------------|-------------|
| KSC621 | 1.7 ± 0.5 | 300,000 | 0.4 ± 0.2 |
| KSC631 | 2.55 ± 0.65 | 300,000 | 0.4 ± 0.2 |
| KSC641 | 3.4 ± 0.85 | 300,000 | 0.4 ± 0.2 |



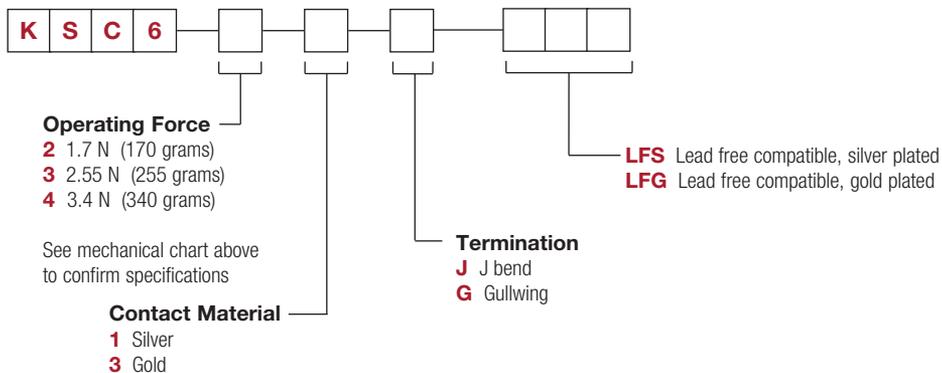
Packaging

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.**



Dimensions are shown: mm
Specifications and dimensions subject to change

