

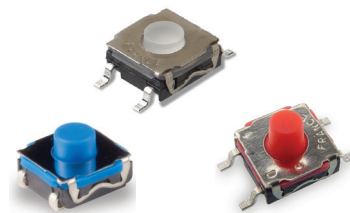
# KSC Series Sealed Tact Switch for SMT

## 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

|                        | 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  $\leq 5$  sec.
- Cleaning according to typical washing processes.
- Lead free reflow soldering process in accordance with IEC 61760-1.

## 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.):  $\geq 250$  Vrms  
CONTACT RESISTANCE:  $\leq 100$  m $\Omega$   
INSULATION RESISTANCE (100 V):  $\geq 10$  M  $\Omega$   
BOUNCE TIME:  $\leq 1$  ms

\* Ultra low current with 10  $\mu$ A - 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

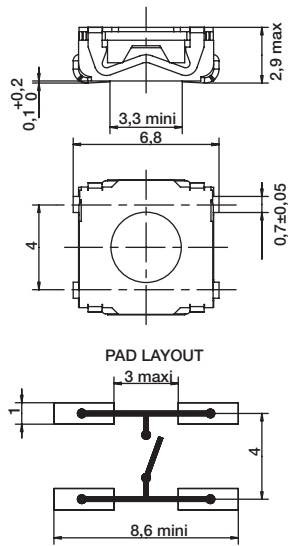
| KSC1             | KSC2          | KSC3          | KSC4          | KSC5          | KSC6          | KSC7          | KSC8          | KSC9                              | KSC10         | KSC11         |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------------|---------------|---------------|
| Without actuator | Soft actuator | Hard actuator | Soft actuator | Hard actuator | Hard actuator | Soft actuator | Hard actuator | Hard actuator                     | Soft actuator | Hard 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 = 4.4 mm    | H = 4.9 mm    | H = 7.7 mm compatible with button | H = 4.9 mm    | H = 4 mm      |
| IP67             | IP67          | IP67          | IP67          | IP50          | IP67          | IP67          | IP67          | IP67                              | IP67          | IP67          |



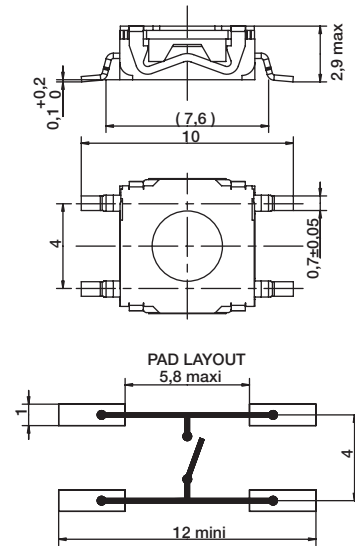
Note: KSC Series is subject to variants. Please contact customer service for other options.

# KSC Series Sealed Tact Switch for SMT

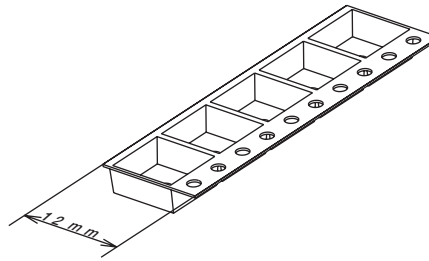
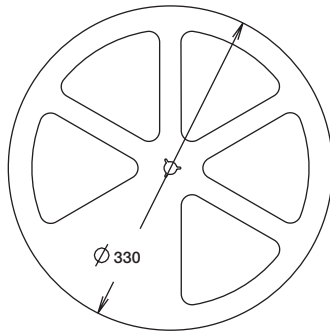
## J BEND



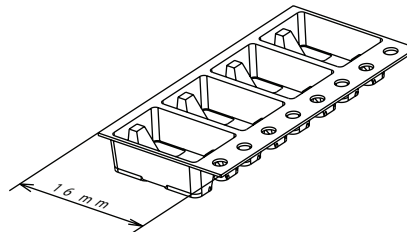
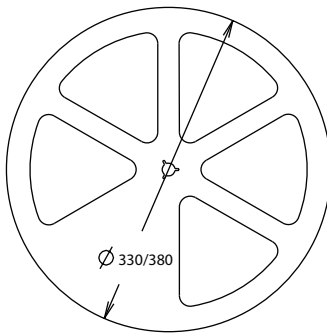
## G GULLWING



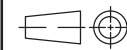
12 MM



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        |
|       |        | KSC11J     | 1,000  | 380 mm        |



First Angle  
Projection

Dimensions are shown: mm  
Specifications and dimensions subject to change

# 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           | Force (N)   | Life (cycles) | Travel (mm) |
|----------------|-------------|---------------|-------------|
| KSC XA 35J LFS | 3.5 +/-1    | 1,000,000     | 0.7+/-0.2   |
| KSC XA 40J LFS | 4.0 +/-1    | 1,000,000     | 0.7+/-0.2   |
| KSC XA 55J LFS | 5.5 +/-1.1  | 1,000,000     | 0.7+/-0.2   |
| KSC XA 68J LFS | 6.8 +/- 1.4 | 500,000       | 0.7+/-0.2   |
| KSC XA 96J LFS | 9.6 +/- 2.4 | 150,000       | 0.7+/-0.2   |

POWER: 0.002 VA min. / 1VA Max.

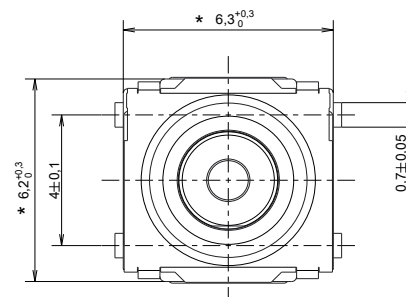
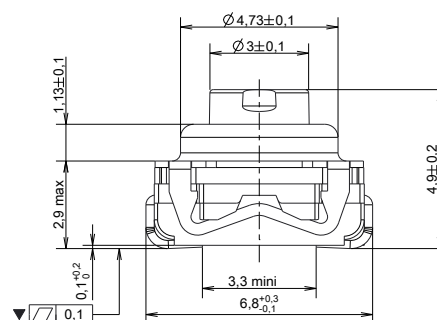
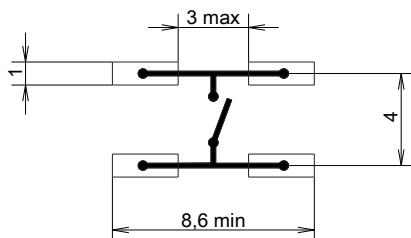
VOLTAGE: 2V min. / 24V Max.

CURRENT: 1mA min. / 42mA Max.

OPERATING TEMPERATURE: -40°C / +95°C

CONTACT RESISTANCE: 0.1 ohm

## PCB LAYOUT



## Packaging

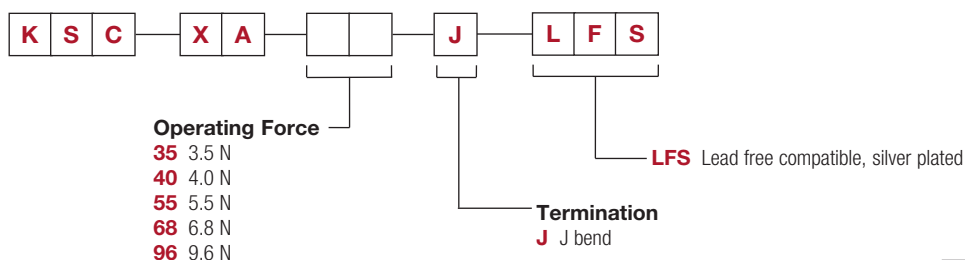
In reels of 1,400 pieces.

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.



First Angle  
Projection

Dimensions are shown: mm  
Specifications and dimensions subject to change



8 Jul 21

B-77

www.ckswitches.com

# KSC SLT Series Long Travel Tact Switch

## Features/Benefits

- Long travel
- Soft sound
- IP40
- J & G terminations
- Tape & reel

## Typical Applications

- Automotive interior
- Front panel
- Instrumentation



## Specification

FUNCTION: Momentary  
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.  
TERMINALS: J bend & Gullwing type for SMT

## Mechanical

MAXIMUM APPLIED FORCE: 40N  
\* VALID ONE TIME. MAXIMUM ALLOWED TRAVEL TO AVOID OVERLOAD ISSUES IS 1.70MM.

| Type             | Force (N)   | Life (cycles) | Travel (mm)  |
|------------------|-------------|---------------|--------------|
| KSC SLT 221J LFS | 2.4 +/- 0.7 | 200,000       | 1.35 +/-0.25 |
| KSC SLT 221G LFS | 2.4 +/- 0.7 | 200,000       | 1.35 +/-0.25 |
| KSC SLT 223J LFG | 2.4 +/- 0.7 | 200,000       | 1.35 +/-0.25 |
| KSC SLT 223G LFG | 2.4 +/- 0.7 | 200,000       | 1.35 +/-0.25 |
| KSC SLT 241J LFS | 3.5 +/- 0.9 | 200,000       | 1.35 +/-0.25 |
| KSC SLT 241G LFS | 3.5 +/- 0.9 | 200,000       | 1.35 +/-0.25 |
| KSC SLT 243J LFG | 3.5 +/- 0.9 | 200,000       | 1.35 +/-0.25 |
| KSC SLT 243G LFG | 3.5 +/- 0.9 | 200,000       | 1.35 +/-0.25 |

## Electrical

|                       | Silver | Gold   |
|-----------------------|--------|--------|
| SWITCHING POWER MAX.: | 1.0 VA | 0.2 VA |
| MAXIMUM POWER:        | 1.0 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   | 1 mA   |

DIELECTRIC STRENGTH:  $\geq 250$  Vrms  
CONTACT RESISTANCE:  $< 100\text{m}\Omega$   
INSULATION RESISTANCE: Initial measurement:  $\geq 1\text{G}\Omega$   
After damp heat:  $\geq 10\text{M}\Omega$   
BOUNCE TIME:  $< 5$  ms

## Environmental

OPERATING TEMPERATURE:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  (Silver)  
 $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  (Gold)

STORAGE TEMPERATURE:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  (Silver)  
 $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  (Gold)

## Process

Compatible with the lead free reflow soldering process.

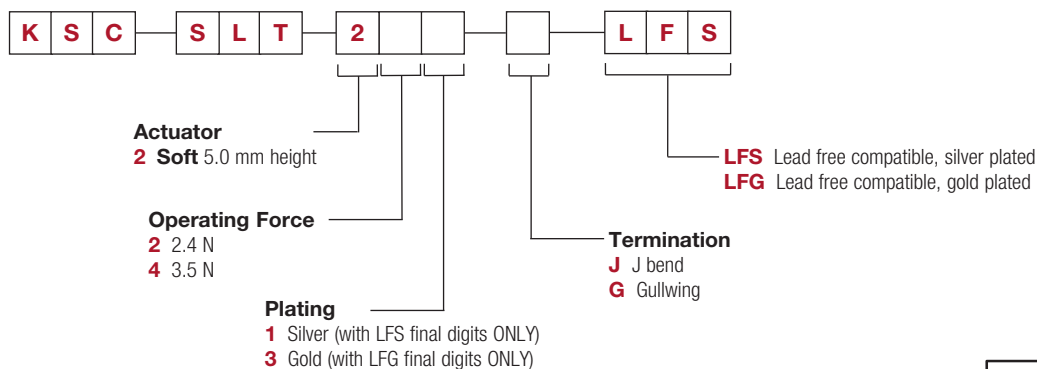
## Packaging

In reels of 1,000 pieces.  
Dimensions of reels according to EIA RS481 or IEC 2863.  
External diameter 330 mm  $\pm$  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.



Dimensions are shown: mm

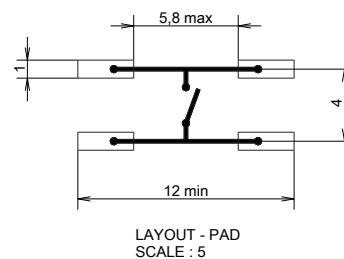
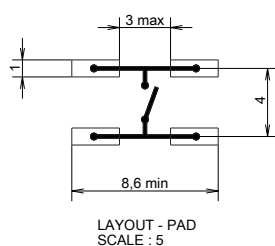
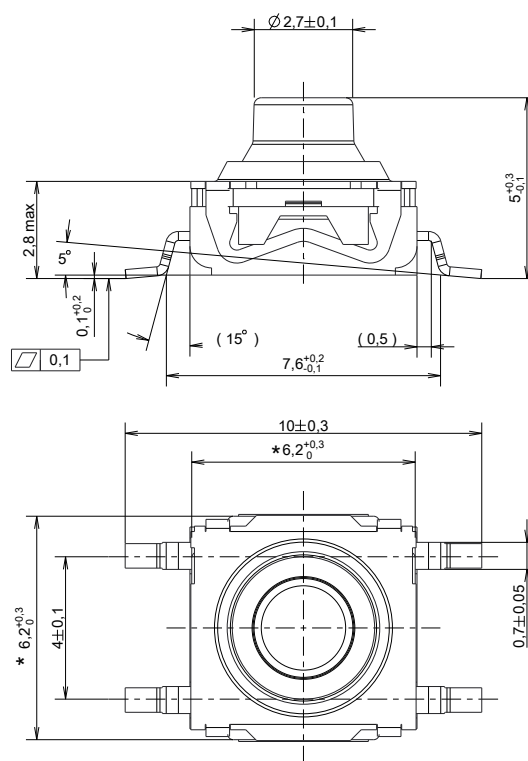
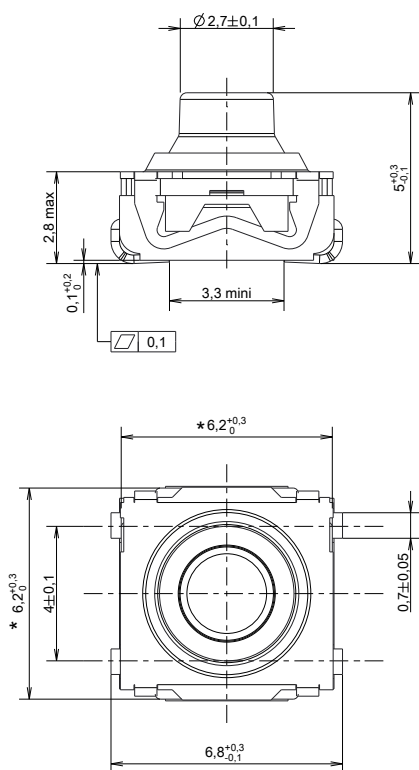
Specifications and dimensions subject to change



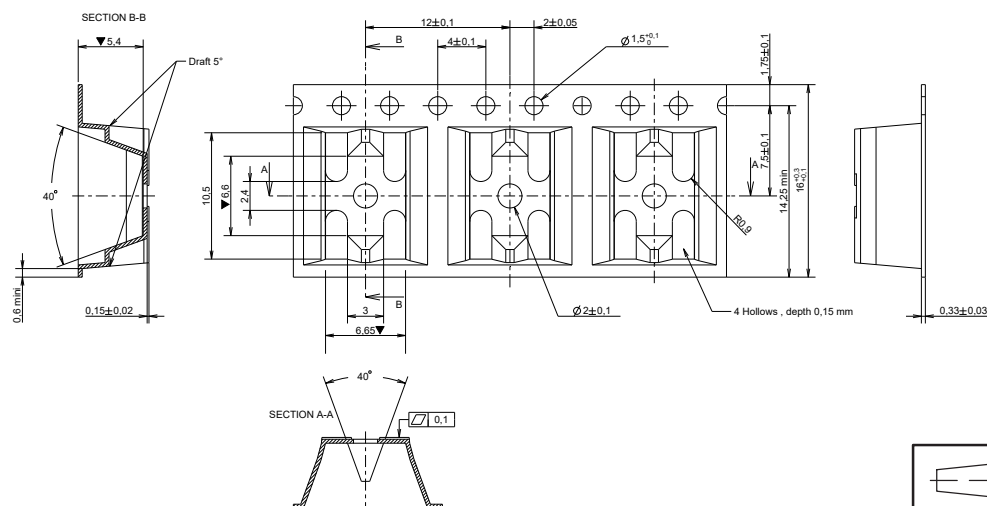
20 Apr 21

## B Tactile Switches

**G** Gullwing



## TAPE & REEL



First Angle  
Projection

Dimensions are shown: mm  
Specifications and dimensions subject to change

# KSC1 Series

## Sealed Tact Switch for SMT

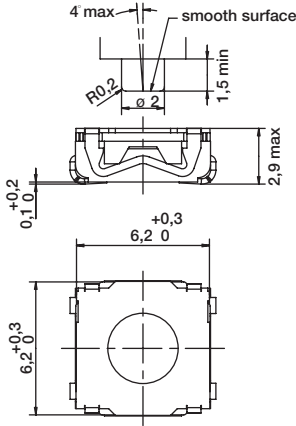
### KSC1 without actuator 2,5 mm high



| Type   | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|--------|------------------------------|-----------------------------|-------------|
| KSC121 | 1.8 ± 0.65                   | 200,000                     | 0.3 ± 0.15  |
| KSC141 | 3 ± 0.75                     | 200,000                     | 0.3 ± 0.15  |
| KSC151 | 5.5 ± 1.4                    | 100,000                     | 0.35 ± 0.15 |

### 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

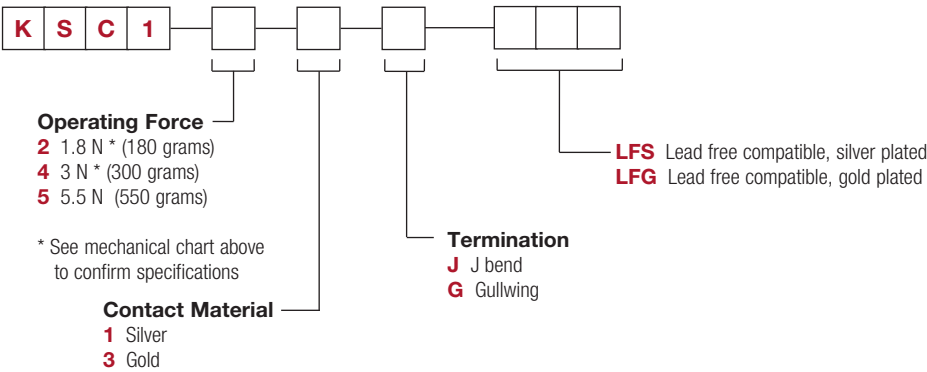


### How To Order

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.



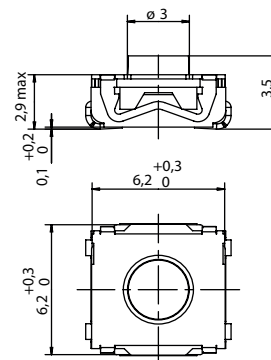
# KSC2 Series

## Sealed Tact Switch for SMT

KSC2 soft actuator 3,5 mm high



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



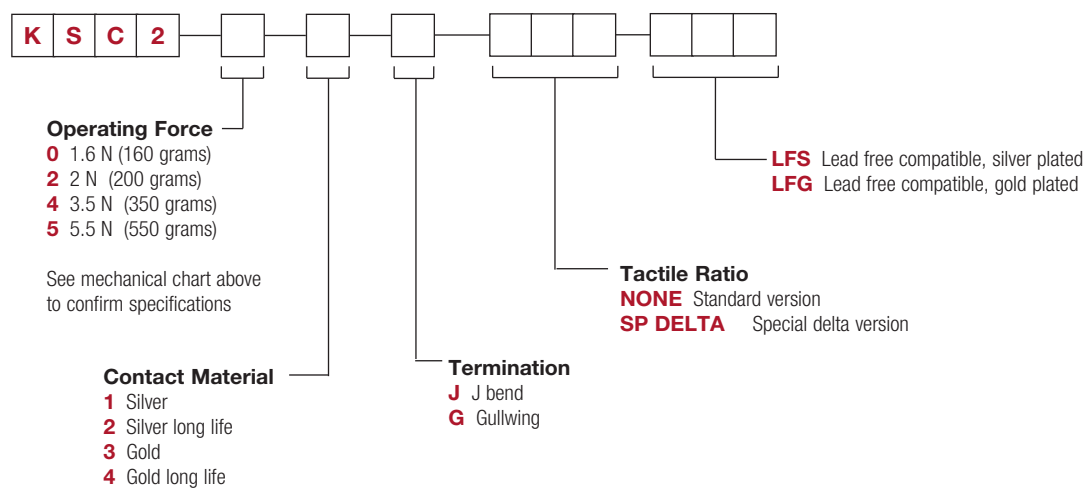
### Packaging

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.



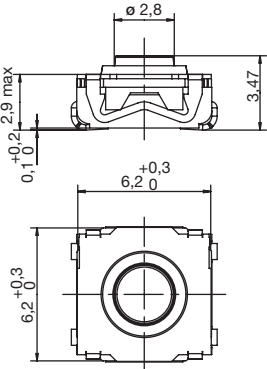
# KSC3 Series

## Sealed Tact Switch for SMT

### KSC3 hard actuator 3,5 mm high



| Type   | Operating force FA (Newtons) | Operating life (operations) | Travel (mm)    |
|--------|------------------------------|-----------------------------|----------------|
| KSC321 | 2 ± 0.4                      | 300,000                     | 0.2 + 0.3/- 0  |
| KSC341 | 3 ± 0.75                     | 300,000                     | 0.2 + 0.3/- 0  |
| KSC351 | 5 ± 1                        | 100,000                     | 0.25 + 0.3/- 0 |



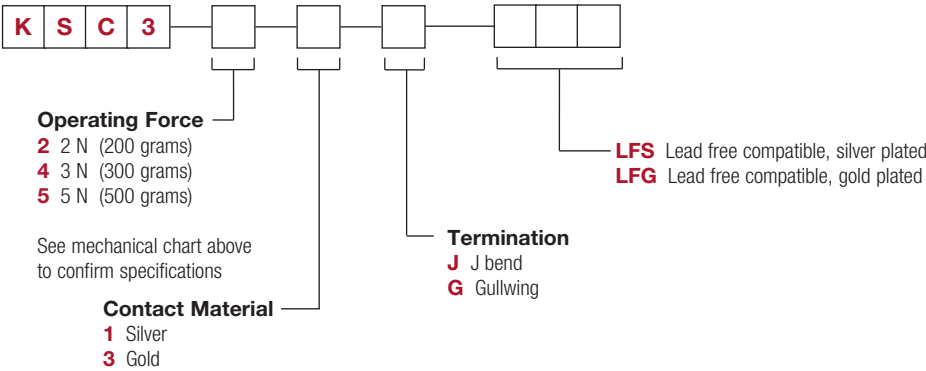
### Packaging

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.**

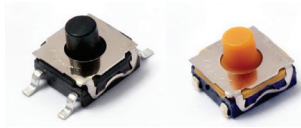




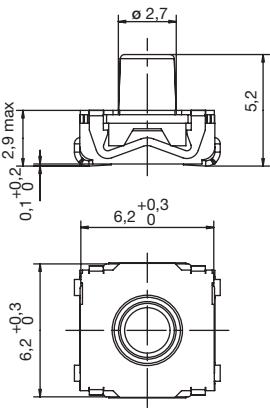
# KSC4 Series

## Sealed Tact Switch for SMT

KSC4 soft actuator 5,2 mm high



| Type        | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|-------------|------------------------------|-----------------------------|-------------|
| KSC401 50SH | 1.45 ± 0.55                  | 5,000,000                   | 0.5 ± 0.25  |
| KSC411 70SH | 1.4 ± 0.35                   | 1,000,000                   | 0.35 ± 0.20 |
| KSC421 70SH | 1.7 ± 0.45                   | 300,000                     | 0.5 ± 0.25  |
| KSC422 70SH | 1.7 ± 0.45                   | 1,000,000                   | 0.5 ± 0.25  |
| KSC441 70SH | 4 ± 1                        | 300,000                     | 0.75 ± 0.25 |
| KSC442 70SH | 4 ± 1                        | 1,000,000                   | 0.75 ± 0.25 |
| KSC451 70SH | 4.25 ± 0.75                  | 300,000                     | 0.8 ± 0.2   |
| KSC441 SPD  | 3.5 ± 0.9                    | 300,000                     | 0.7 ± 0.2   |
| KSC441 ST1  | 3.4 ± 1                      | 300,000                     | 0.7 ± 0.25  |
| KSC441 ST2  | 3.4 ± 1                      | 300,000                     | 0.35 ± 0.20 |
| KSC461 ST1  | 6.25 ± 1.75                  | 100,000                     | 1 ± 0.3     |
| KSC461 ST2  | 6.25 ± 1.75                  | 300,000                     | 0.5 ± 0.2   |



### 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.

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**Operating Force**  
0 1.45 N (145 grams)  
1 1.4N (140 grams)  
2 1.7 N (170 grams)  
4 4 N (400 grams)  
5 4.25 N (425 grams)  
6 6.25 N (625 grams)  
See mechanical chart above to confirm specifications

**Contact Material**  
1 Silver  
2 Silver long life  
3 Gold  
4 Gold long life

**Termination**  
J J bend  
G Gullwing

**50SH** 50 shore \*\*  
**70SH** 70 shore \*\*\*  
**SPD** Special delta version  
**ST1** High click  
**ST2** Low click

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

\*\* applies to KSC401J/G50SH only  
\*\*\* applies to KSC411J/G70SH, KSC421J/G70SH and KSC441J/G70SH

# KSC DCT Series Dual Circuit Technology Tact Switch

## Features/Benefits

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

## Typical Applications

- Automotive
- Medical equipment
- Industrial electronics



| Type                 | Force (N)    | Operating Life (operations) | Travel (mm)     |
|----------------------|--------------|-----------------------------|-----------------|
| KSC441J DCT 70SH LFS | 4.75 +/-1.25 | 300,000                     | 0.85+0.35/-0.25 |
| KSC441G DCT 70SH LFS | 4.75 +/-1.25 | 300,000                     | 0.85+0.35/-0.25 |

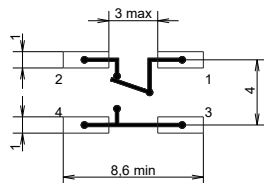
### Packaging

In reels of 1,000 pieces.

Dimensions of reels according to EIA RS481 or IEC 2863.

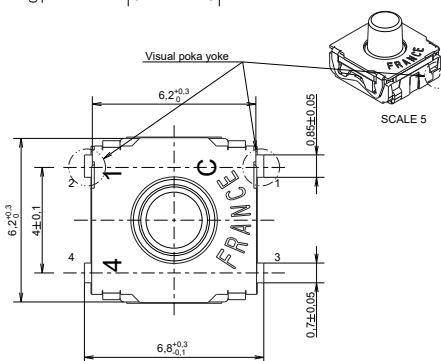
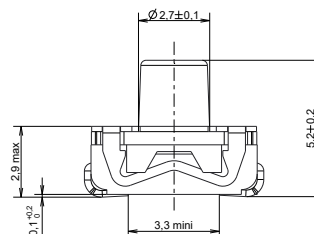
External diameter 330 ± 2 mm

### PCB Layout



LAYOUT - PAD  
SCALE : 5

1 - 2 NC  
1 - 3 NO



## 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.**



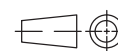
**Force**  
**4** 4.75 N

**Contact Material**  
**1** Silver

**Termination**  
**J** J bend  
**G** Gull wing

**LFS** Lead free compatible, silver plated

**Actuator / Tactile**  
**70SH** Silicon 70SH



First Angle  
Projection



25 oct 18

# KSC PF Series Potting Friendly Tact Switch



## Features/Benefits

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

## Typical Applications

- Automotive
- Medical equipment
- Industrial electronics

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

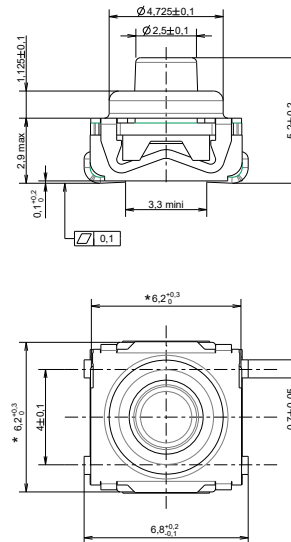
Max. potting height: 2.9 mm

## Packaging

In reels of 1,000 pieces.

Dimensions of reels according to EIA RS481 or IEC 2863.

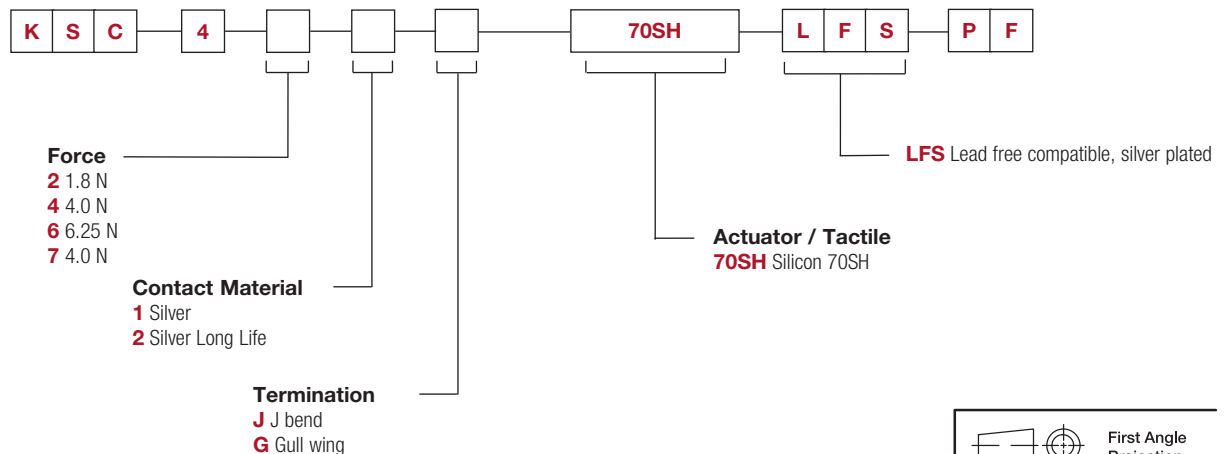
External diameter 330 ± 2 mm



## 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 OF Series Overload Friendly Tact Switch



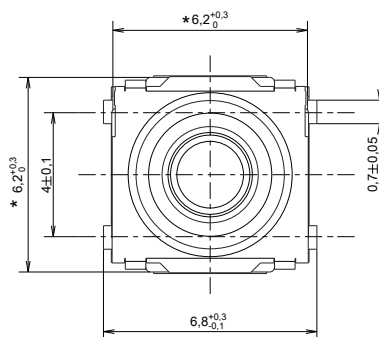
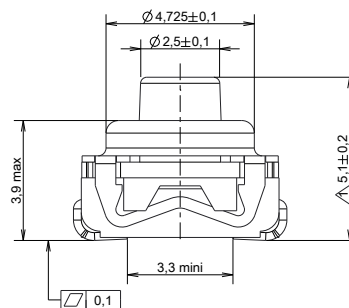
## Features/Benefits

- Extended cage for mechanical stop
- Silicone actuator
- J termination
- Tape & reel
- IP67

## Typical Applications

- Industrial electronics
- Consumer
- Medical equipment
- Automotive interior

| Type                | Force (N)   | Life    | Travel (mm)   |
|---------------------|-------------|---------|---------------|
| KSC421J 70SH LFS OF | 1.65+/-0.45 | 300,000 | 0.5+/-0.25    |
| KSC441J 70SH LFS OF | 4.0+/-1.0   | 300,000 | 0.65+0.3/-0.2 |



- 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

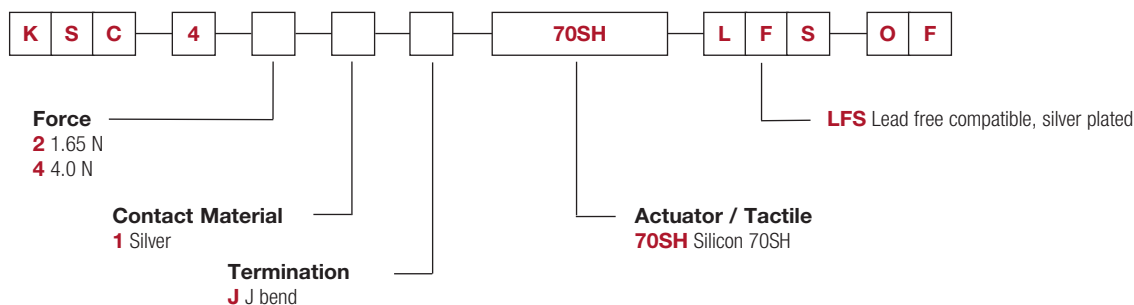
Dimensions of reels according to EIA RS481 or IEC 2863

External diameter 330 ± 2 mm

## 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.



**NEW**

# KSC2 TE Series Tireless Endurance Tact Switch



## Features/Benefits

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

## Typical Applications

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

| Type            | Force (N) | Life       | Travel (mm) | Electrical Height ON (mm) (from PCB) |
|-----------------|-----------|------------|-------------|--------------------------------------|
| KSC2 TE 01J LFS | 1.60 ±0.6 | 10,000,000 | 0.25 ±0.2   | 3.25 ±0.2                            |
| KSC2 TE 31J LFS | 2.80 ±0.7 | 5,000,000  | 0.30 ±0.2   | 3.25 ±0.2                            |
| KSC2 TE 41J LFS | 4.00 ±1.0 | 5,000,000  | 0.35 ±0.2   | 3.20 ±0.2                            |

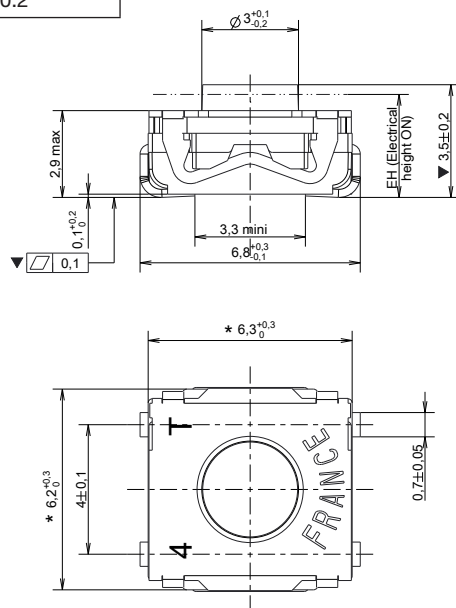
Life time under electrical load (24 V, 1.3 mA)

## Packaging

In reels of 2,000 pieces

Dimensions of reels according to EIA RS481 or IEC 2863

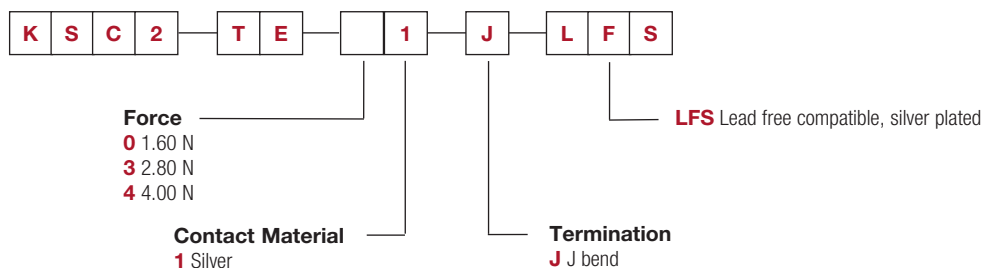
External diameter 330 ± 2 mm



## How To Order

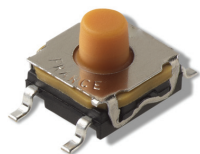
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

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



**NEW**

# KSC4 TE Series Tireless Endurance Tact Switch



## Features/Benefits

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

## Typical Applications

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

| Type            | Force (N) | Life       | Travel (mm) | Electrical Height ON (mm) (from PCB) |
|-----------------|-----------|------------|-------------|--------------------------------------|
| KSC4 TE 01J LFS | 1.60 ±0.6 | 10,000,000 | 0.25 ±0.2   | 4.9 ±0.2                             |
| KSC4 TE 31J LFS | 2.80 ±0.7 | 5,000,000  | 0.35 ±0.2   | 4.8 ±0.2                             |
| KSC4 TE 41J LFS | 4.00 ±1.0 | 5,000,000  | 0.60 ±0.2   | 4.6 ±0.2                             |

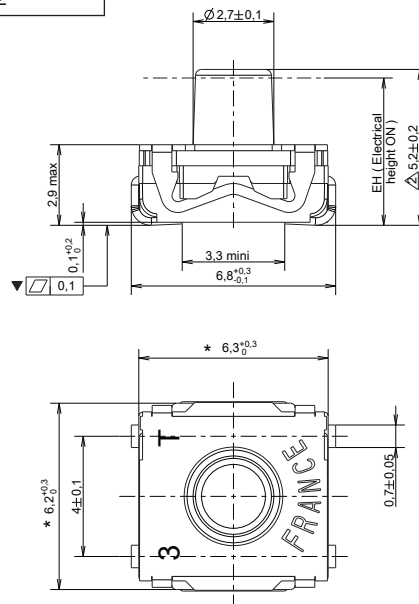
Life time under electrical load (24 V, 1.3 mA)

## Packaging

In reels of 1,400 pieces

Dimensions of reels according to EIA RS481 or IEC 2863

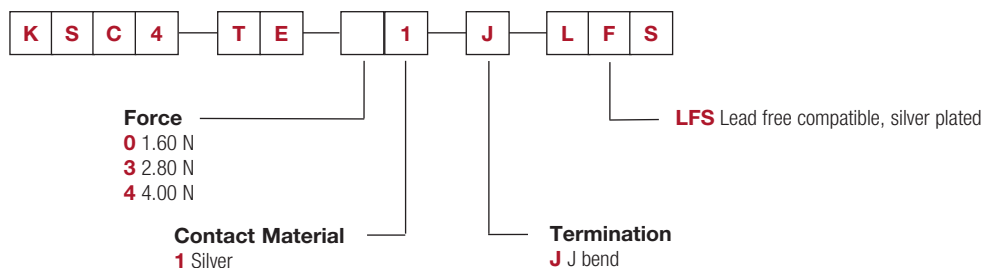
External diameter 380 ± 2 mm



## 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

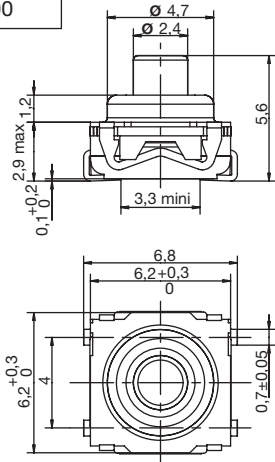
KSC5 hard actuator 5,6 mm high



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

### Packaging

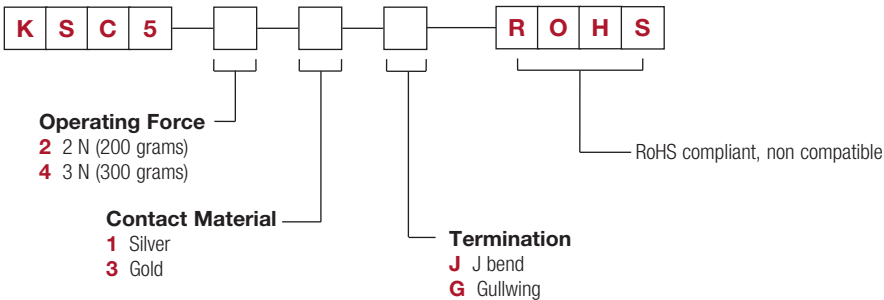
Switches delivered on continuous tape & reels of 1,000 pieces, dimensions according to EIA RS-481/ IEC 60286-3 standard  
External diameter 330 ± 2 mm



### 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.



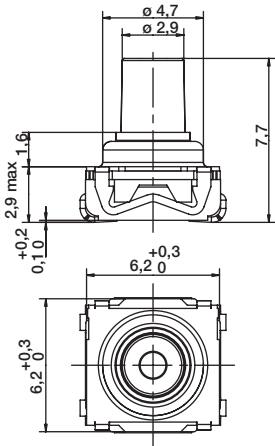
# KSC6 Series

## Sealed Tact Switch for SMT

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   |



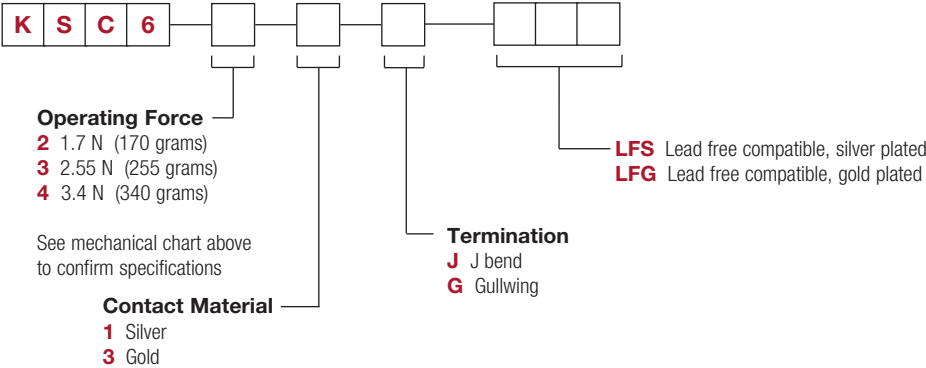
### Packaging

Switches delivered on continuous tape & reels of 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.**





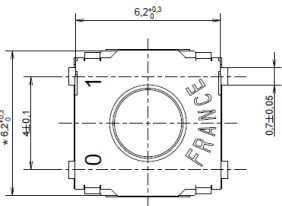
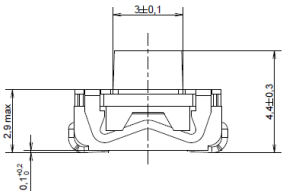
# KSC7 Series

## Sealed Tact Switch for SMT

KSC7 soft actuator 4,4 mm high



| Type   | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|--------|------------------------------|-----------------------------|-------------|
| KSC701 | 1.6 ± 0.6                    | 5,000,000                   | 0.3 ± 0.2   |
| KSC721 | 2.25 ± 0.55                  | 300,000                     | 0.3 ± 0.15  |
| KSC741 | 3.9 ± 1                      | 300,000                     | 0.4 ± 0.2   |



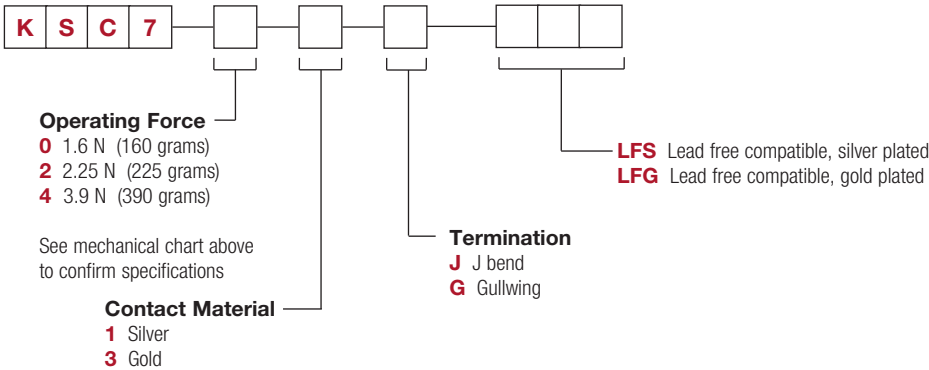
### Packaging

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.



# KSC8 Series Sealed Tact Switch for SMT

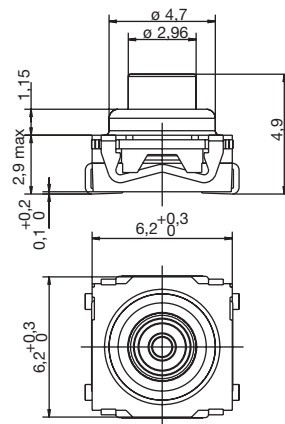
## KSC8 hard actuator 4,9 mm high



| Type      | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|-----------|------------------------------|-----------------------------|-------------|
| KSC821    | 3.15 ± 0.75                  | 300,000                     | 0.65 ± 0.2  |
| KSC821 OL | 1.7 ± 0.5                    | 300,000                     | 0.4 ± 0.2   |
| KSC831 OL | 2.55 ± 0.65                  | 300,000                     | 0.4 ± 0.2   |
| KSC841 OL | 3.4 ± 0.85                   | 300,000                     | 0.4 ± 0.2   |

### 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

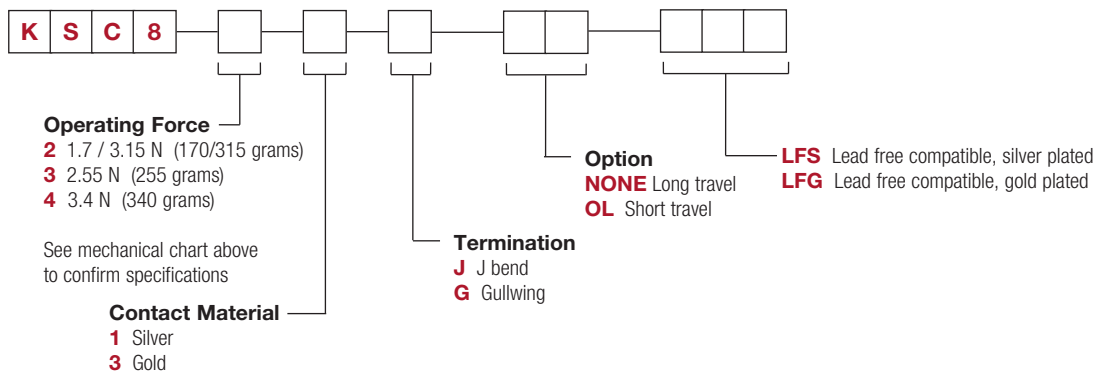


### How To Order

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.



# KSC9 Series

## Sealed Tact Switches for SMT

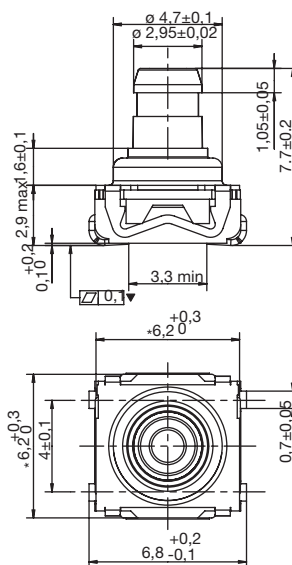
KSC9 hard actuator 7,7 mm high



| Type   | Operating force FA (Newtons) | Operating life (operations) | Travel (mm)   |
|--------|------------------------------|-----------------------------|---------------|
| KSC921 | $1.7 \pm 0.5$                | 300,000                     | $0.4 \pm 0.2$ |
| KSC931 | $2.25 \pm 0.65$              | 300,000                     | $0.4 \pm 0.2$ |
| KSC941 | $3.4 \pm 0.85$               | 300,000                     | $0.4 \pm 0.2$ |

### Packaging

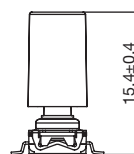
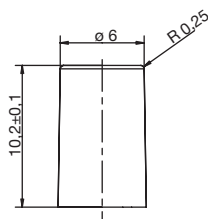
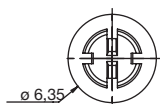
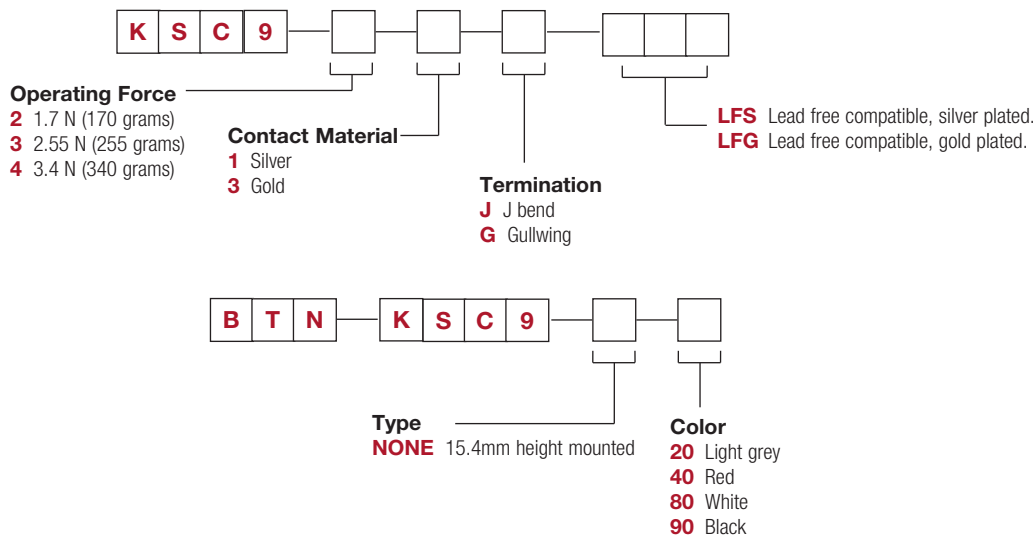
Switches delivered on continuous tape & reels of 950 pieces  
 Dimensions according to EIA RS-481/ IEC 60286-3 standard  
 External diameter  $380 \pm 2$  mm



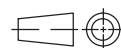
### How To Order

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.**



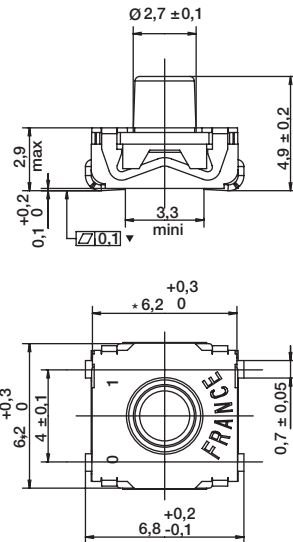
SWITCH WITH CAP



First Angle  
Projection

# KSC10 Series Sealed Tact Switches for SMT

## KSC10 soft actuator 4,9 mm high



| Type    | Operating force FA (Newtons) | Operating life (operations) | Travel (mm) |
|---------|------------------------------|-----------------------------|-------------|
| KSC1001 | 1.45 ± 0.55                  | 5,000,000                   | 0.45 ± 0.25 |

### Packaging

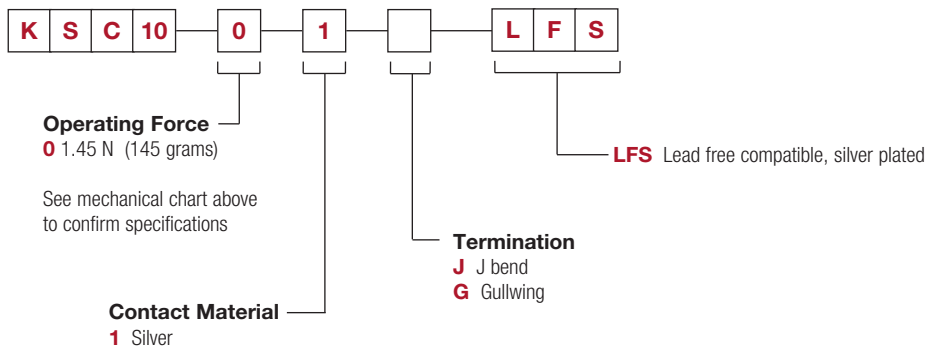
Switches delivered on continuous tape & reels of 1,000 pieces  
Dimensions according to EIA RS-481/ IEC 60286-3 standard  
External diameter 330 ± 2 mm

### 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.**



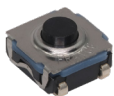
Note: KSC10 offered with yellow actuator as standard, hardness 55 Shore



Dimensions are shown: mm  
Specifications and dimensions subject to change

**NEW**

# 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

| Type         | Force (N) | Life      | Travel (mm) |
|--------------|-----------|-----------|-------------|
| KSC1101J LFS | 1.60 ±0.4 | 3,000,000 | 0.20 ±0.1   |
| KSC1131J LFS | 3.20 ±0.6 | 2,000,000 | 0.25 ±0.15  |
| KSC1151J LFS | 5.00 ±1.0 | 1,000,000 | 0.40 ±0.15  |

## 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

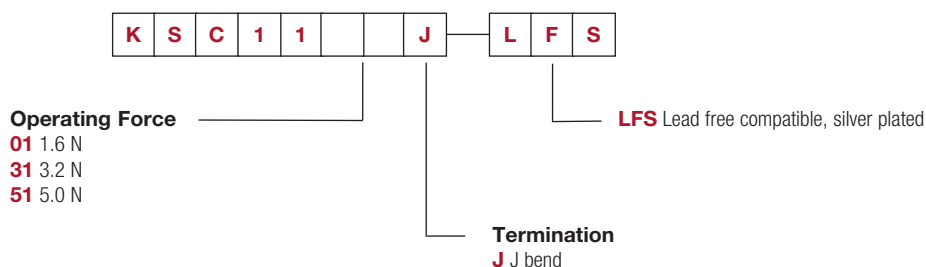
This component is suited to the following methods:  
 – Cleaning according to typical washing processes  
 – Lead free reflow soldering process in accordance with IEC 61760-1

## 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.



KSC11 Series  
Sealed Tact Switch for SMT

NEW

Tactile Switches

