

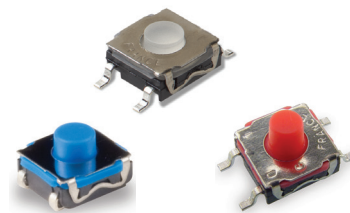
KSC Series Sealed Tact Switch for SMT

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 ≤ 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.): ≥ 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

Packaging

Tape and Reel (see series for quantity information)

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

KSC Product Range

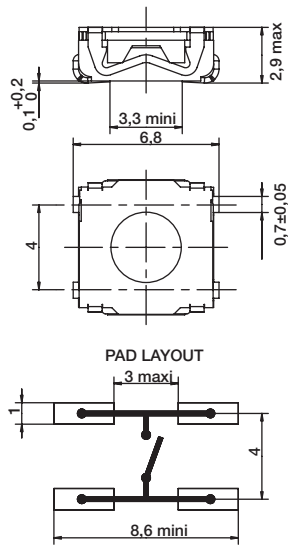
KSC1	KSC2	KSC3	KSC4	KSC5	KSC6	KSC7	KSC8	KSC9	KSC10
Without actuator	Soft actuator	Hard actuator	Soft actuator	Hard actuator	Hard actuator	Soft actuator	Hard actuator	Hard actuator	Soft actuator
H = 2.5 mm	H = 3.5 mm	H = 3.5 mm	H = 5.2 mm	H = 5.6 mm	H = 7.7 mm	H = 4.4 mm	H = 4.9 mm	H = 7.7 mm compatible with button	H = 4.9 mm
IP67	IP67	IP67	IP67	IP50	IP67	IP67	IP67	IP67	IP67



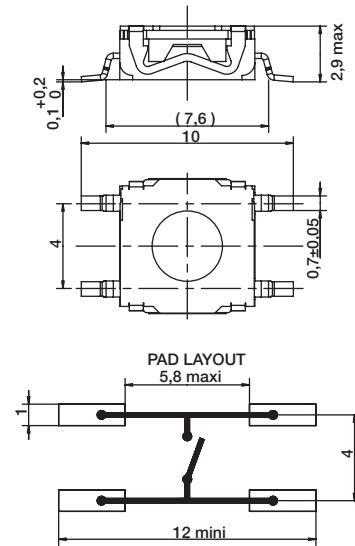
Note: KSC Series is subject to variants. Please contact customer service for other options.

KSC Series Sealed Tact Switch for SMT

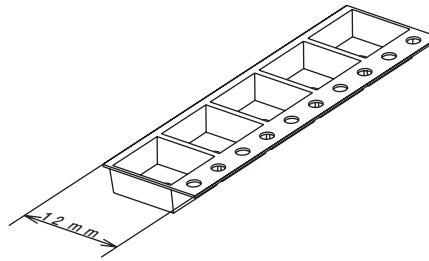
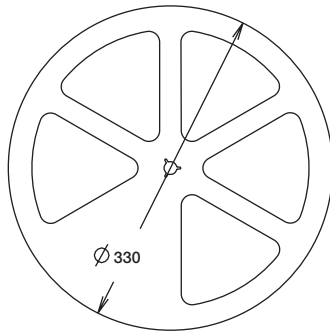
J BEND



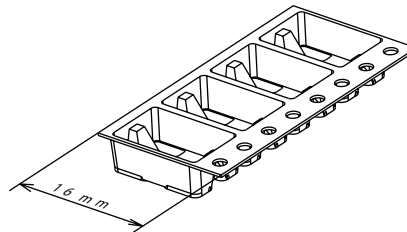
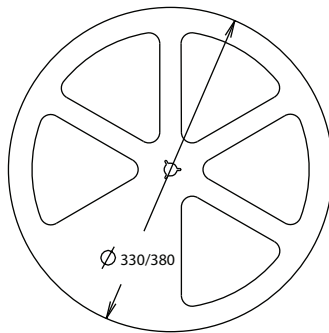
G GULLWING



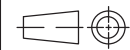
12 MM



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

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.

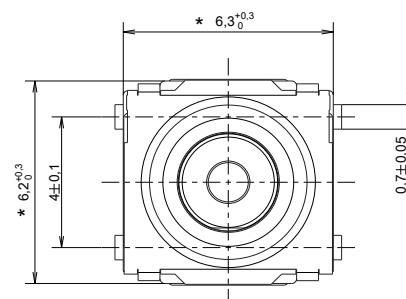
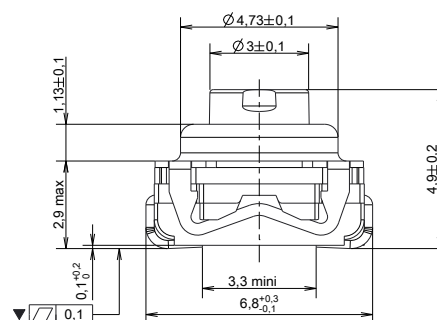
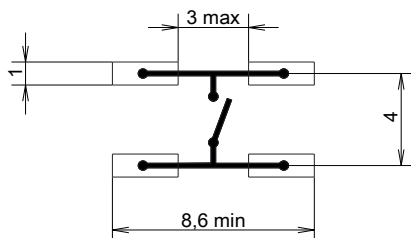
VOLTAGE: 2V min. / 24V Max.

CURRENT: 1mA min. / 42mA Max.

OPERATING TEMPERATURE: -40°C / +95°C

CONTACT RESISTANCE: 0.1 ohm

PCB LAYOUT



Packaging

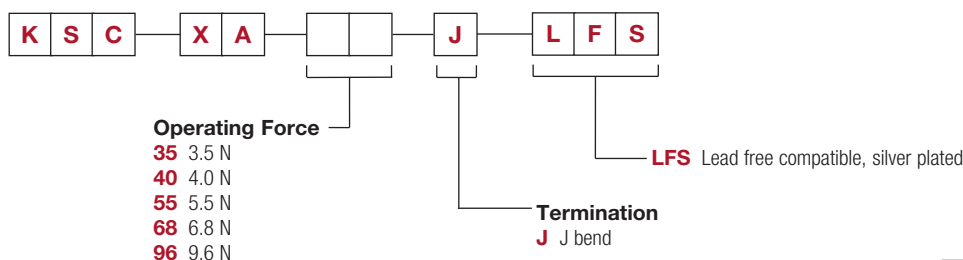
In reels of 1,400 pieces.

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.



Dimensions are shown: mm
Specifications and dimensions subject to change



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

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

Process

Compatible with the lead free reflow soldering process.

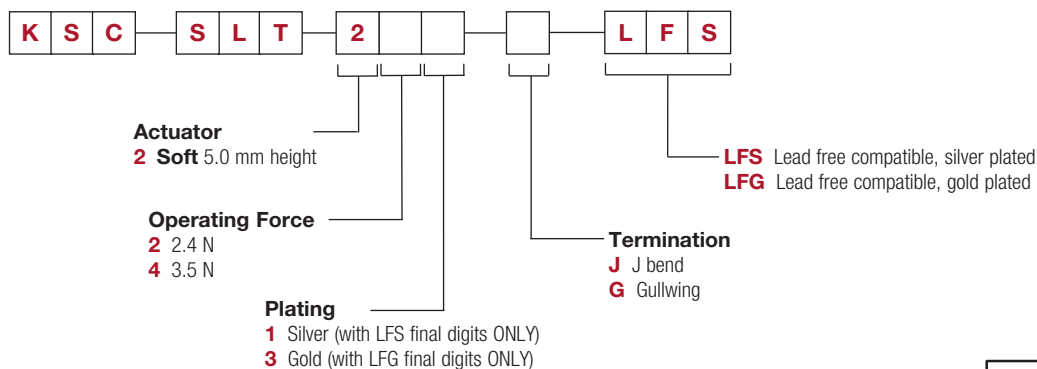
Packaging

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.

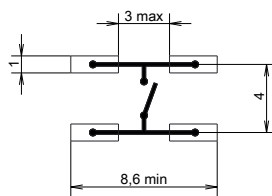
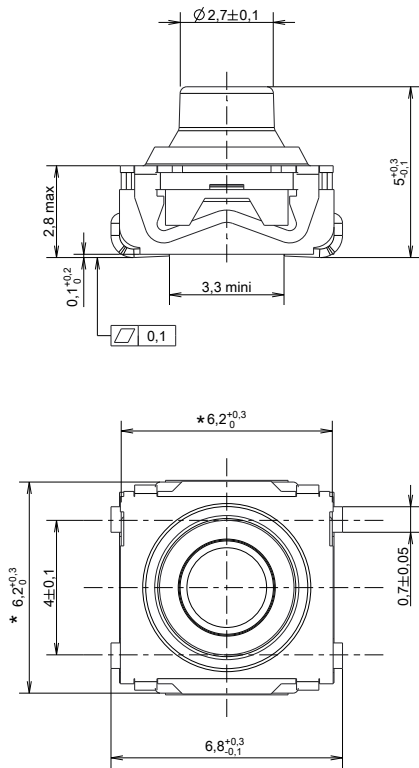


Dimensions are shown: mm

Specifications and dimensions subject to change

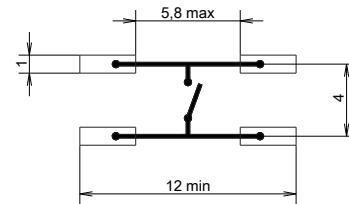
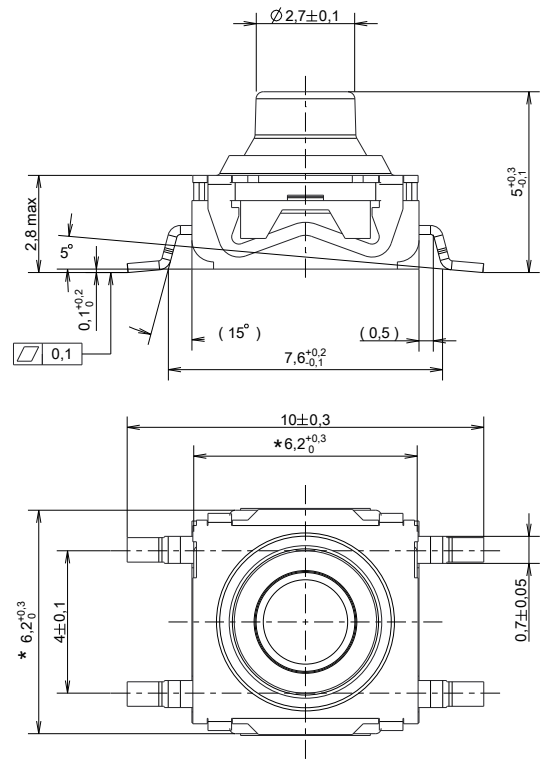
KSC SLT Series Long Travel Tact Switch

J J Bend



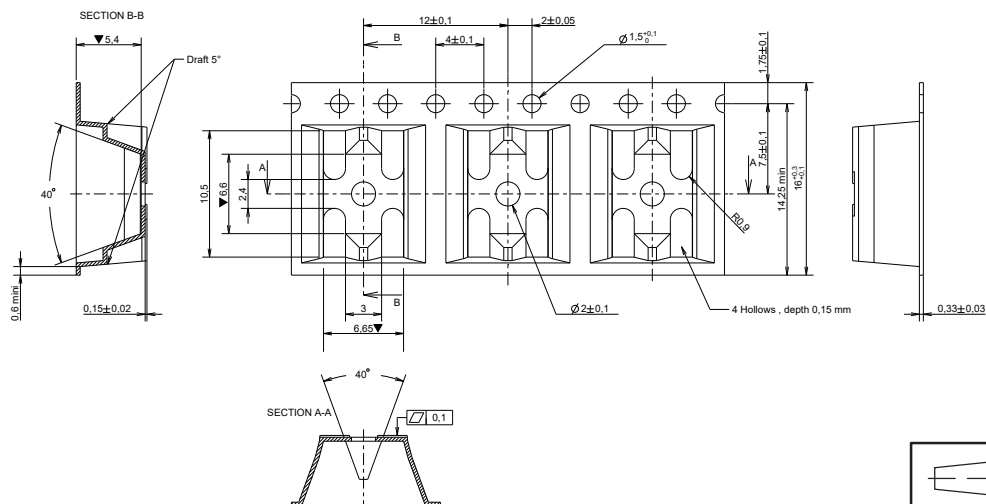
LAYOUT - PAD
SCALE : 5

G Gullwing



LAYOUT - PAD
SCALE : 5

TAPE & REEL



First Angle
Projection

KSC1 Series

Sealed Tact Switch for SMT

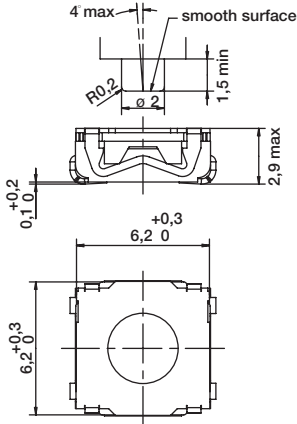
KSC1 without actuator 2,5 mm high



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

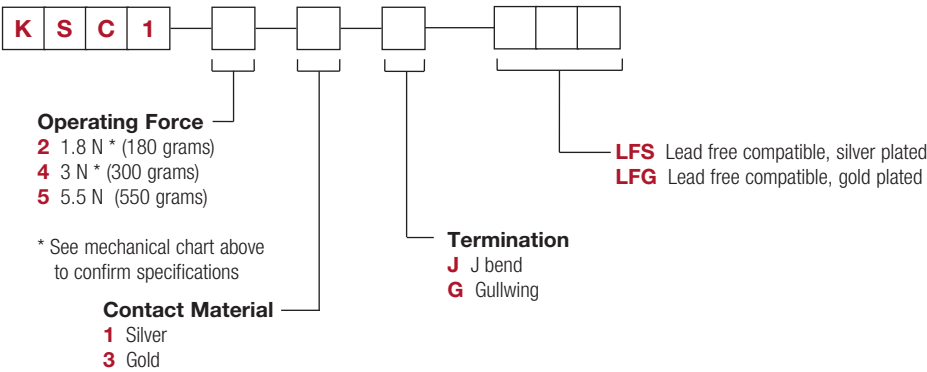


How To Order

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.



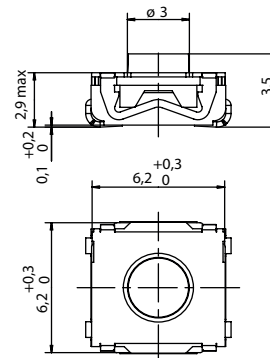
KSC2 Series

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



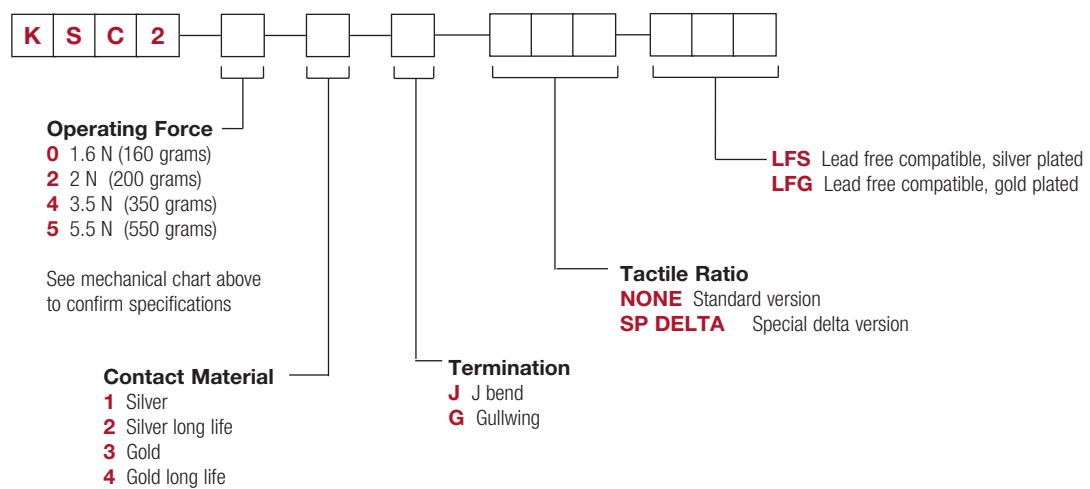
Packaging

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.

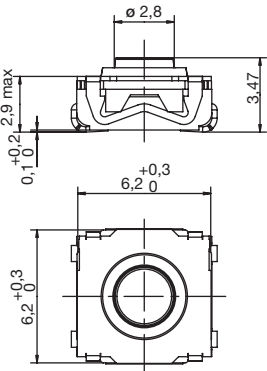


KSC3 Series Sealed Tact Switch for SMT

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



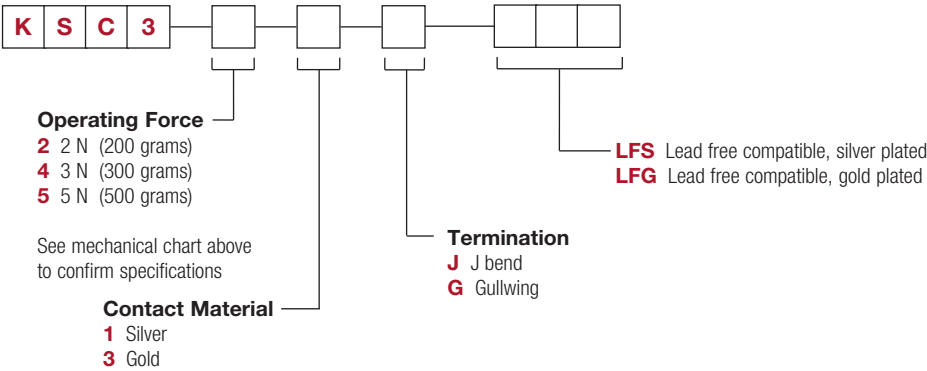
Packaging

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.

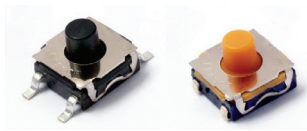
However, please note that all the combinations of these options are not feasible.
 For any part number different from those listed above, please consult your local representative.



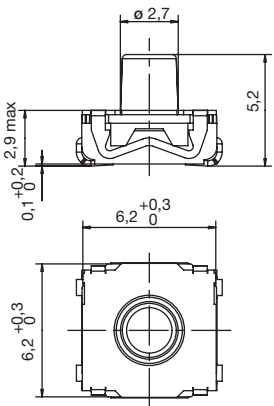
KSC4 Series

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



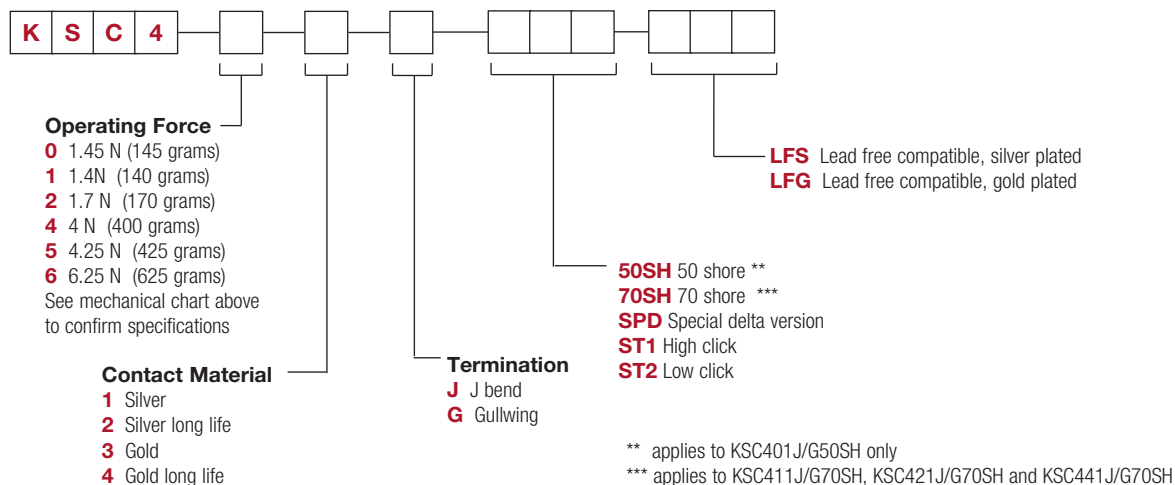
Packaging

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.



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

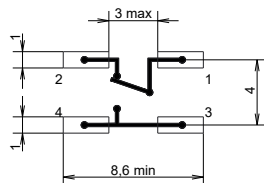
Packaging

In reels of 1,000 pieces.

Dimensions of reels according to EIA RS481 or IEC 2863.

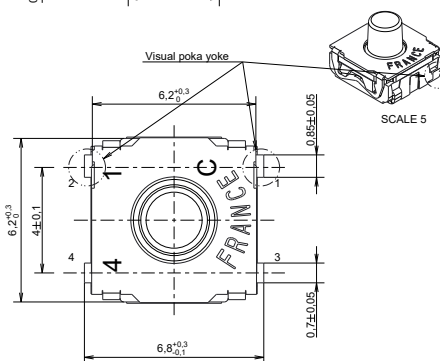
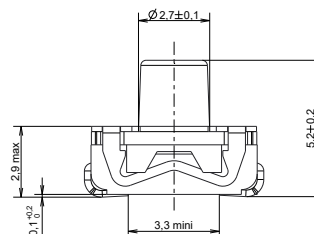
External diameter 330 ± 2 mm

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

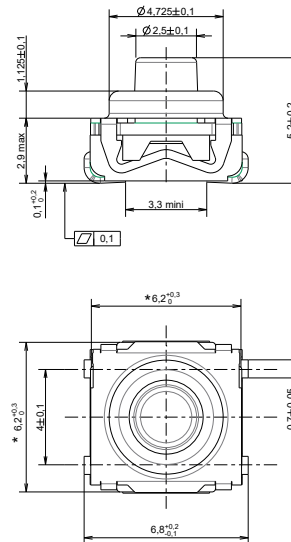
Max. potting height: 2.9 mm

Packaging

In reels of 1,000 pieces.

Dimensions of reels according to EIA RS481 or IEC 2863.

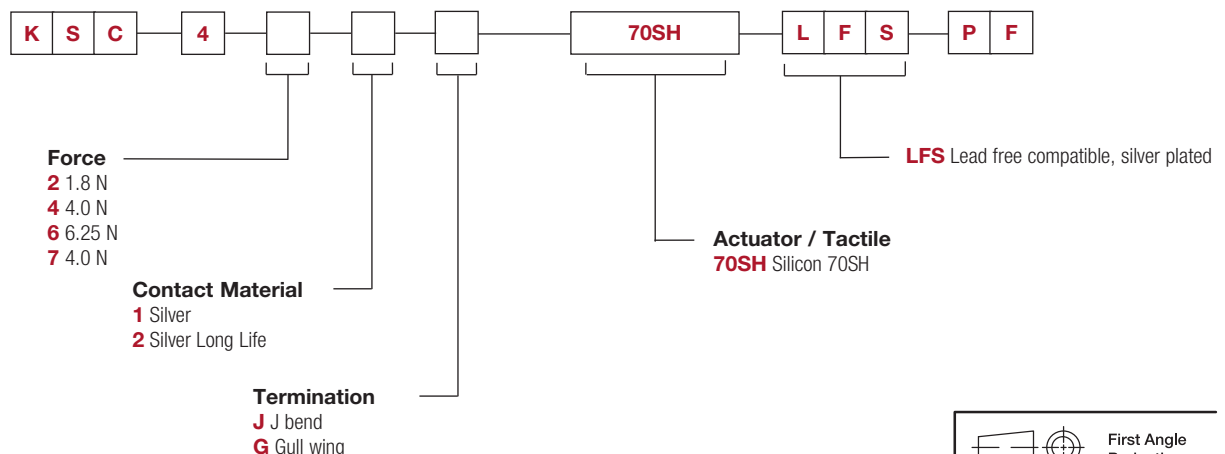
External diameter 330 ± 2 mm



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



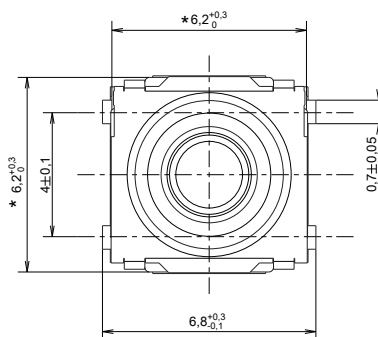
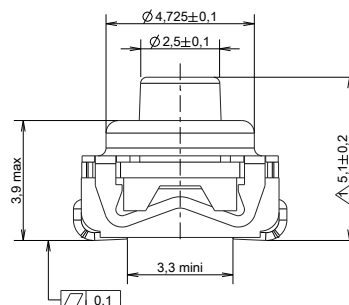
Features/Benefits

- 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

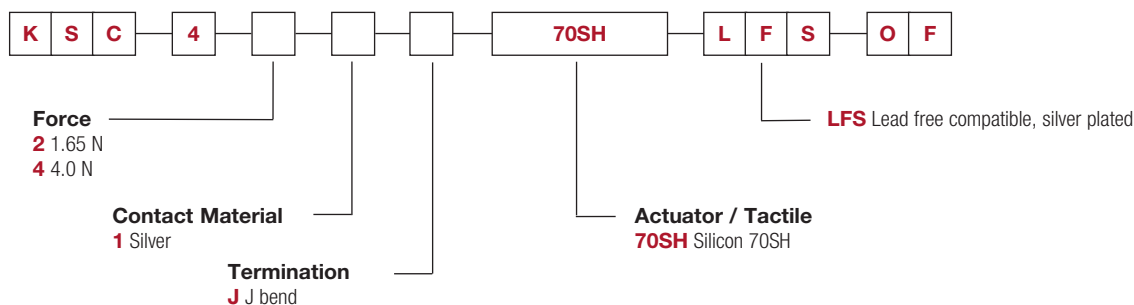
Dimensions of reels according to EIA RS481 or IEC 2863

External diameter 330 ± 2 mm

How To Order

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



NEW

KSC 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
- Industrial 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

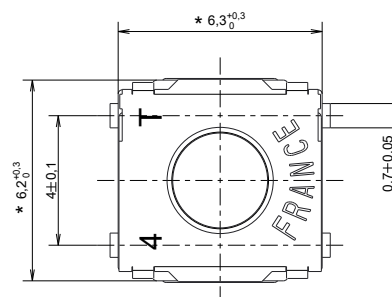
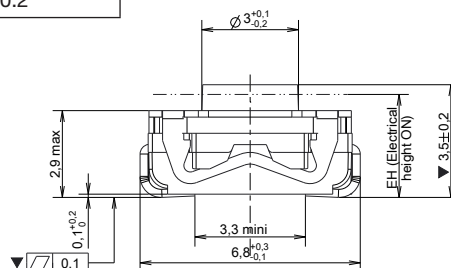
Life time under electrical load (24 V, 1.3 mA)

Packaging

In reels of 2,000 pieces

Dimensions of reels according to EIA RS481 or IEC 2863

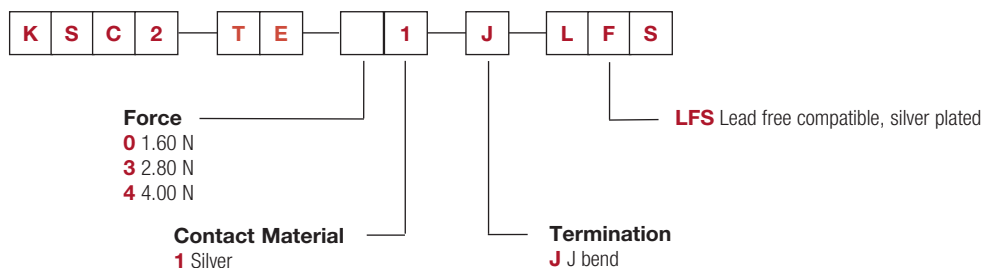
External diameter 330 ± 2 mm



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.



KSC5 Series

Tact Switch with Rocker Option for SMT

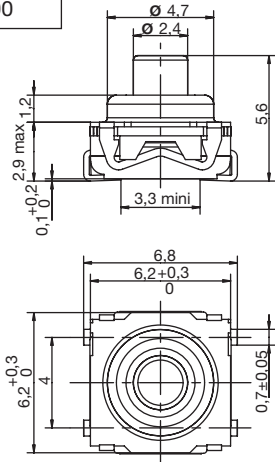
KSC5 hard actuator 5,6 mm high



Type	Operating force axial FA N (grams)	Operating force lateral FL 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

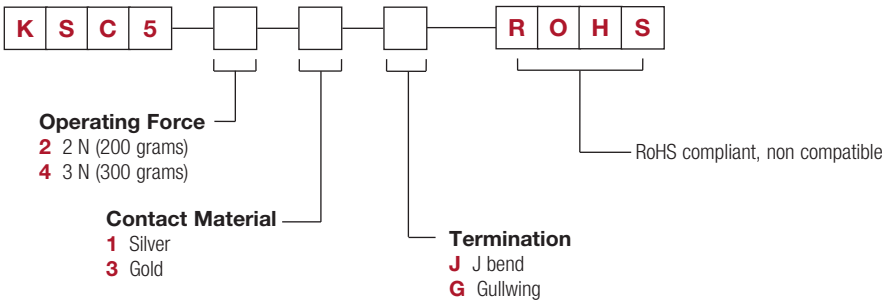
Switches delivered on continuous tape & reels of 1,000 pieces, dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm



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.



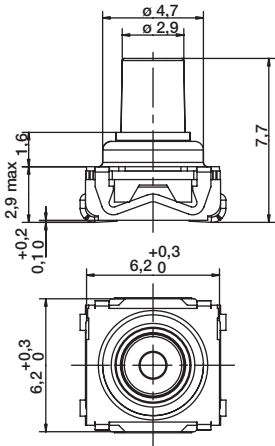
KSC6 Series

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



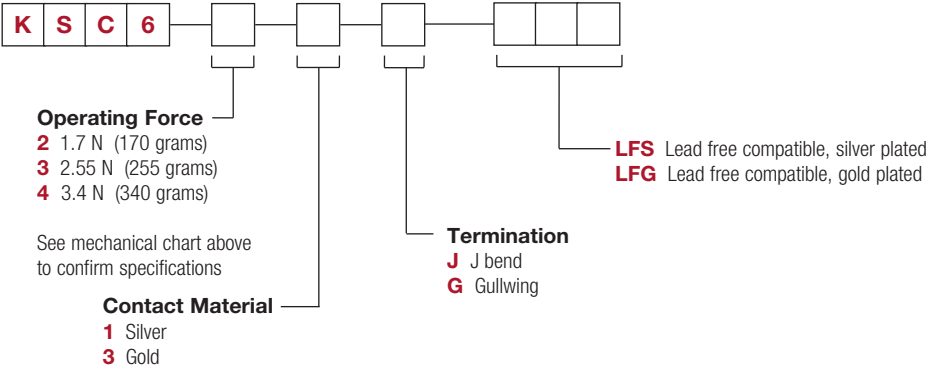
Packaging

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.

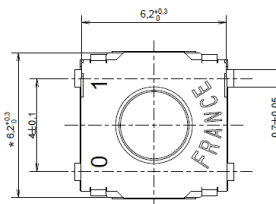
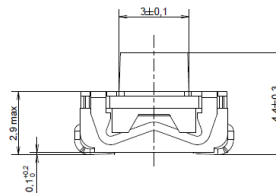


KSC7 Series Sealed Tact Switch for SMT

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



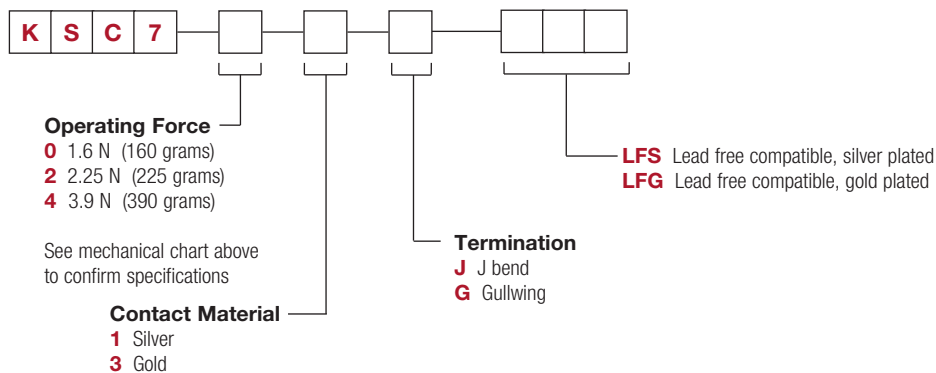
Packaging

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.



First Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

KSC8 Series Sealed Tact Switch for SMT

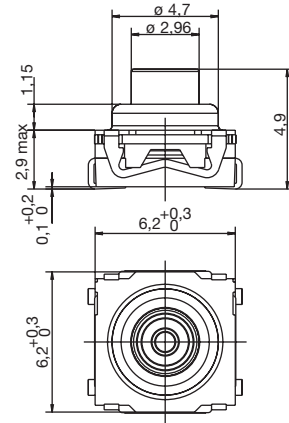
KSC8 hard actuator 4,9 mm high



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

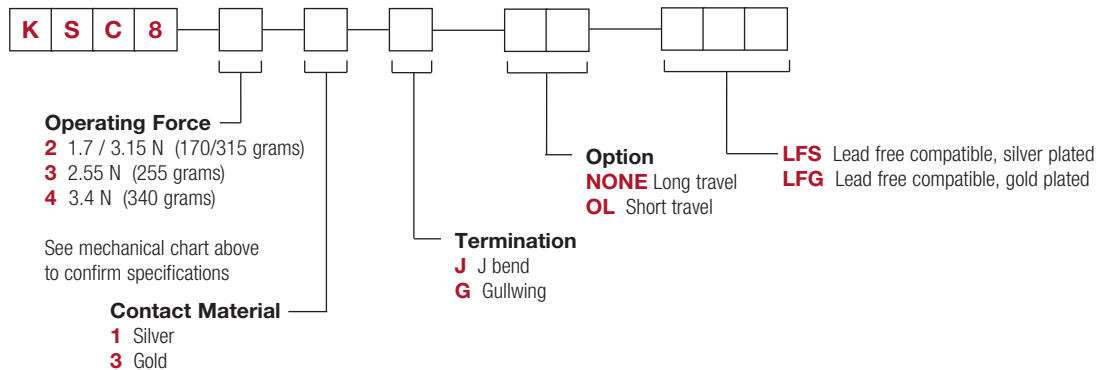


How To Order

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

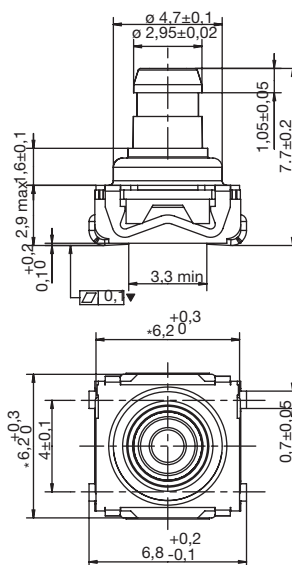
KSC9 hard actuator 7,7 mm high



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

Packaging

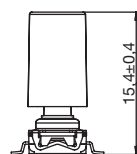
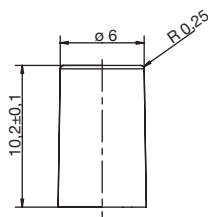
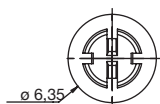
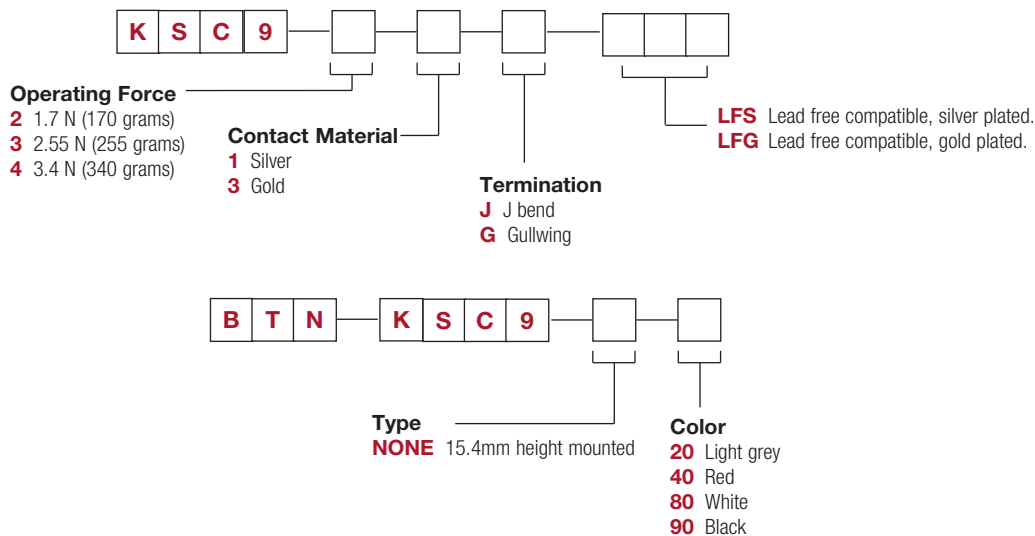
Switches delivered on continuous tape & reels of 950 pieces
 Dimensions according to EIA RS-481/ IEC 60286-3 standard
 External diameter 380 ± 2 mm



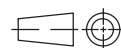
How To Order

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.

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



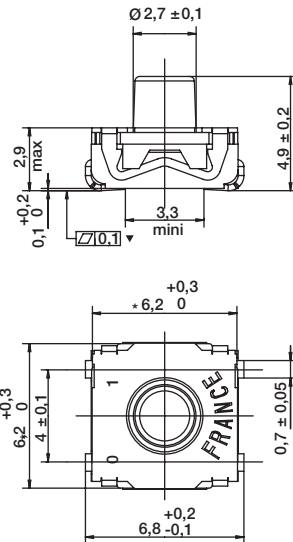
SWITCH WITH CAP



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

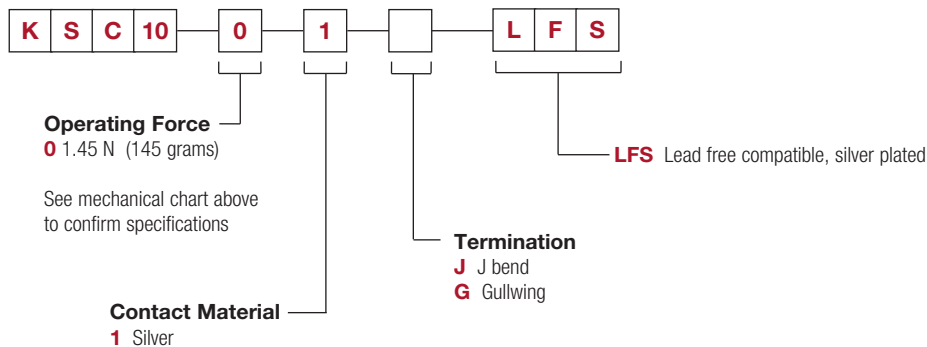
Switches delivered on continuous tape & reels of 1,000 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm

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

KSC V2 Series

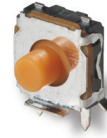
Side Actuated Sealed Tact Switch

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	0.3 ± 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 70SH SP DELTA LFG	3.5 ± 1.0	300,000	0.7 ± 0.2
KSC421 V2 RT LFS	1.8 ± 0.5	300,000	0.3 ± 0.2
KSC423 V2 RT LFG	1.8 ± 0.5	300,000	0.3 ± 0.2
KSC441 V2 RT LFS	3.4 ± 1.0	300,000	0.35 ± 0.2

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): > 10⁹ 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.

NOTE: Other configurations of haptics are available upon demand

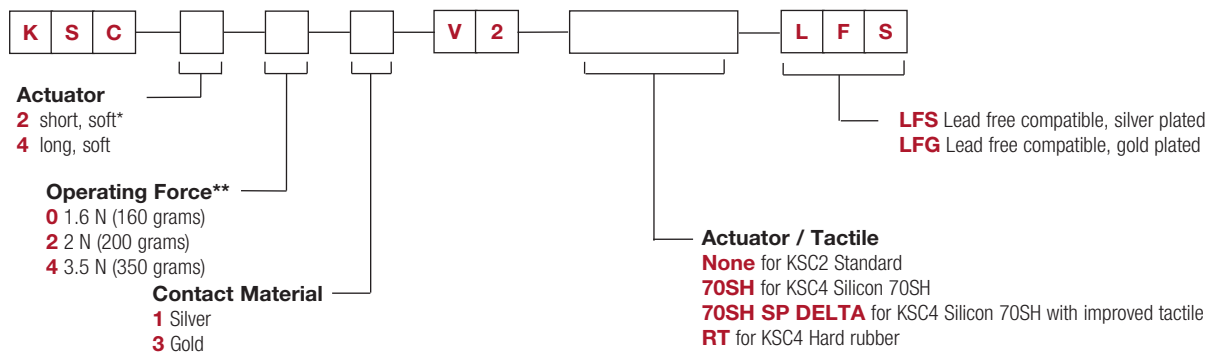
MISUSE OVERLOAD: 40N with back support

SHEAR FORCE: 10N without back support

How To Order

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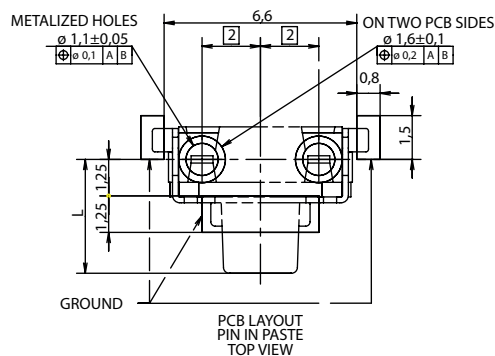


* KSC2 version available upon demand

** Force available upon demand (variant version)



Tactile Switches



Series	L
KSC2	2,3
KSC4	3,9

METALIZED HOLES $\varnothing 1.1 \pm 0.05$

6.6

2 2

ON TWO PCB SIDES $\varnothing 1.6 \pm 0.1$

0.8

1.5

3.87 ± 0.2

1.25 1.25

GROUND

PCB LAYOUT PIN IN PASTE TOP VIEW

Common signal must not be linked to the ground due to Actuator conductive EPDM raw material

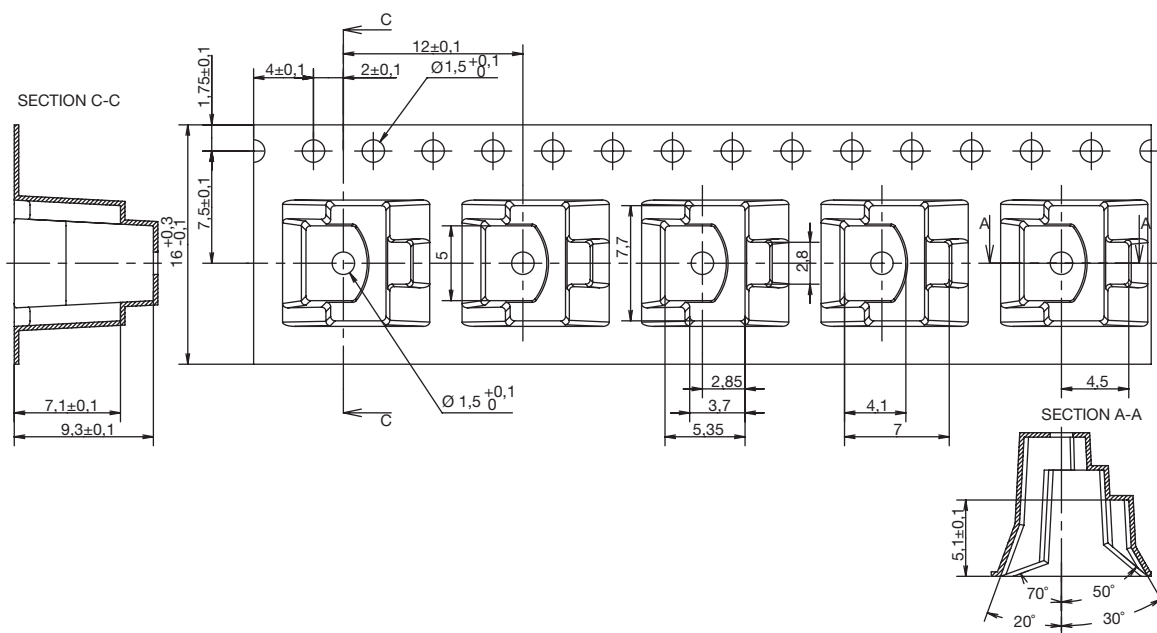


First Angle Projection

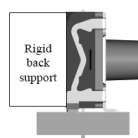
C&K

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TAPE AND REEL



INTEGRATION



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[KSC351J](#) [KSC351G](#) [KSC321J](#) [KSC321G](#) [KSC411JB](#) [KSC221G](#) [KSC621J](#) [KSC621G](#) [KSC401JB](#) [KSC341G](#)
[KSC641J](#) [KSC641G](#) [KSC151J](#) [KSC541G](#) [KSC121J-LFS](#) [KSC441J70SH LFS](#) [KSC411J70SH LFS](#) [KSC421G70SH](#)
[LFS](#) [KSC241J LFS](#) [KSC441G 70SH LFS](#) [KSC401J 50SH LFS](#) [KSC421J 70SH LFS](#) [KSC421 V30 ACT2.95 LFS](#)
[KSC222J LFS](#) [KSC442G 70SH LFS](#) [KSC403J 50SH LFG](#) [KSC411G 70SH LFS](#) [KSC422G 70SH LFS](#) [KSC422J](#)
[70SH LFS](#) [KSC442J 70SH LFS](#) [KSC441G ST2 LFS](#) [KSC421 V30 ACT3.17 LFS](#) [KSC443J 70SH LFG](#) [KSC221J](#)
[KSC341J](#) [KSC441J](#) [KSC441V2 SP Delta LFS](#) [KSC245JLFG](#) [KSC445G70SHLFG](#) [KSC445J70SHLFG](#) [KSC245GLFG](#)
[KSC471JLFS](#)