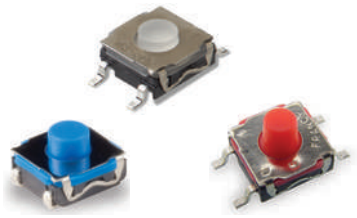
Features/Benefits

- ***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 equipement. 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: ≤ 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

Packaging

Tape and Reel (see series for quantity information)

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

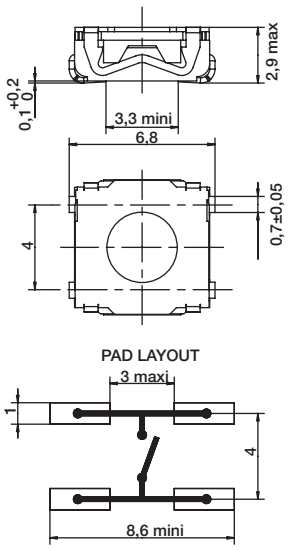
KSC Product Range

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 = 4.3 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

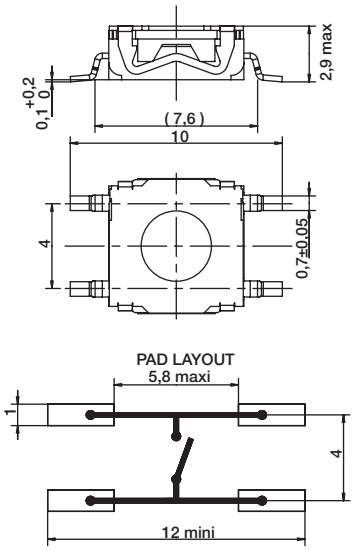


Note: KSC Series is subject to variants. Please contact customer service for other options.

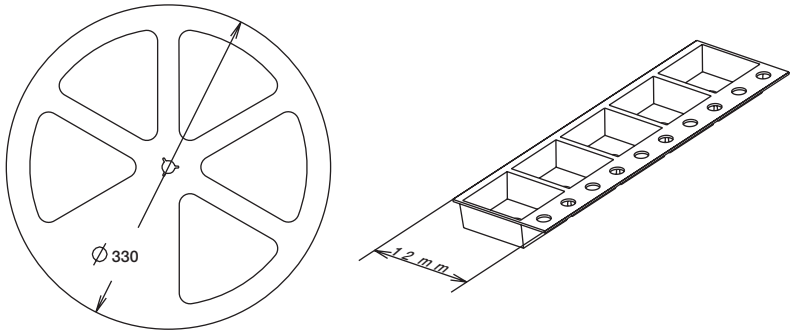
J J BEND



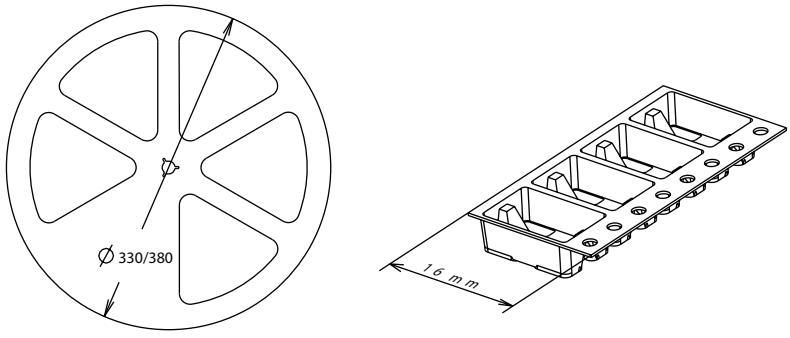
G GULLWING



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

NEW

Features/Benefits

- *New soft sound*
- *Extended cage*
- *IP67*
- *Long life*
- *J terminations*
- *Tape & reel*

Typical Applications

- *Trunk opening system*
- *Automatic gear shift paddle*
- *Steering wheel*
- *Window lifter*
- *Seat adjustment module*



Type	Force (N)	Life (cycles)	Travel (mm)
KSCXA 35J LFS	3.5 +/-1	1.000,000	0.7+/-0.2
KSCXA 40J LFS	4.0 +/-1	1.000,000	0.7+/-0.2
KSCXA 55J LFS	5.5 +/-1.6	1,000,000	0.7+/-0.2
KSCXA 68J LFS	6.8 +/- 1.7	500,000	0.7+/-0.2
KSCXA 96J LFS	9.6 +/- 2.4	150,000	0.7+/-0.2

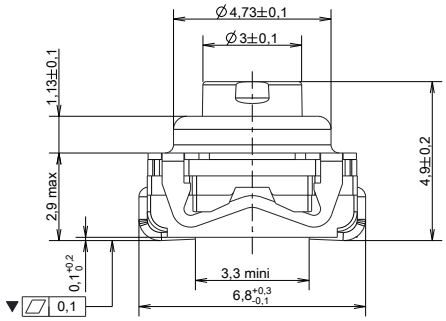
POWER**:** 0.002 VA min. / 1VA Max.

VOLTAGE: 2V min. / 24V Max.

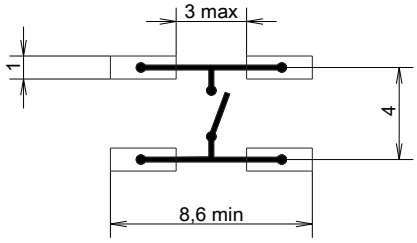
CURRENT: 1mA min. / 42mA Max.

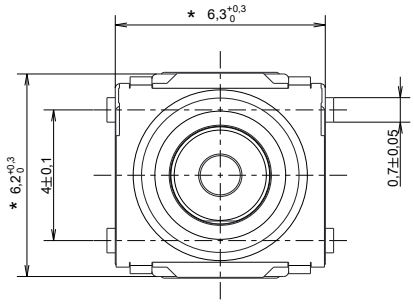
OPERATING TEMPERATURE: -40°C / +95°C

CONTACT RESISTANCE: 0.1 ohm



PCB LAYOUT





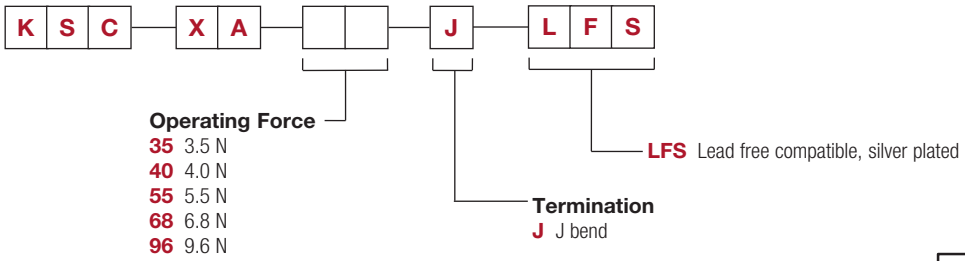
Packaging

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

NEW

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 243J 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: < 100mΩ
INSULATION RESISTANCE: Initial measurement: ≥ 1GΩ
After damp heat: ≥10MΩ
BOUNCE TIME: < 5 ms

Environmental

OPERATING TEMPERATURE: -40°C to +85°C (Silver)
-40°C to +125°C (Gold)

STORAGE TEMPERATURE: -40°C to +85°C (Silver)
-40°C to +125°C (Gold)

Process

Compatible with the lead free reflow soldering process.

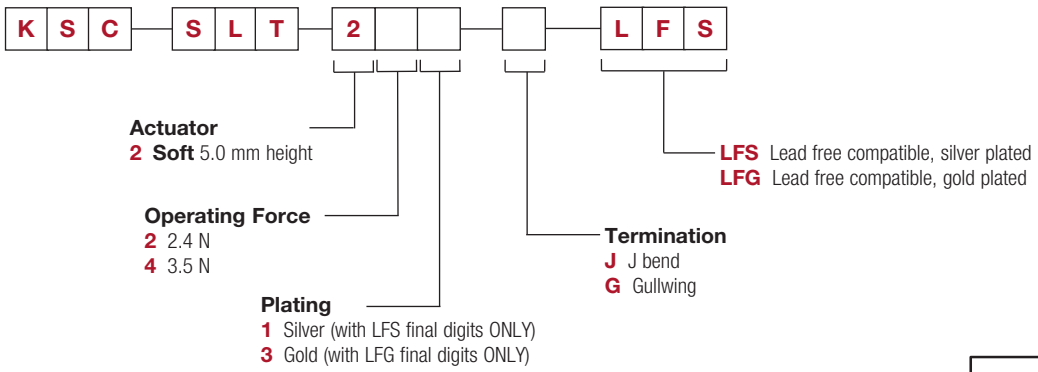
Packaging

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

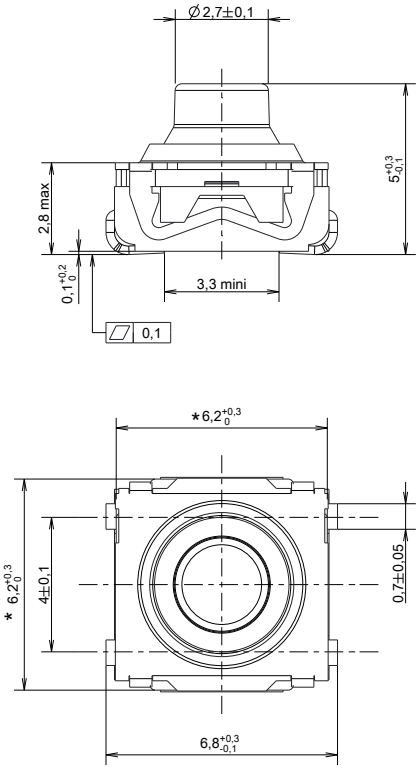


First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

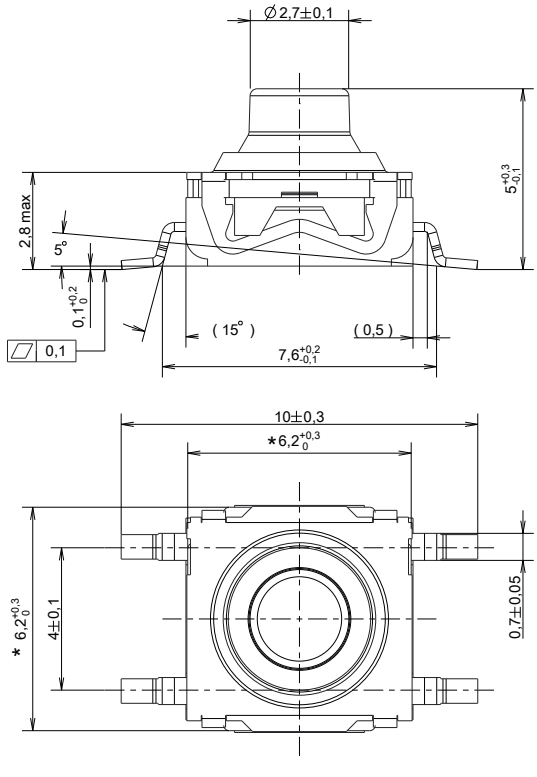
NEW

J J Bend



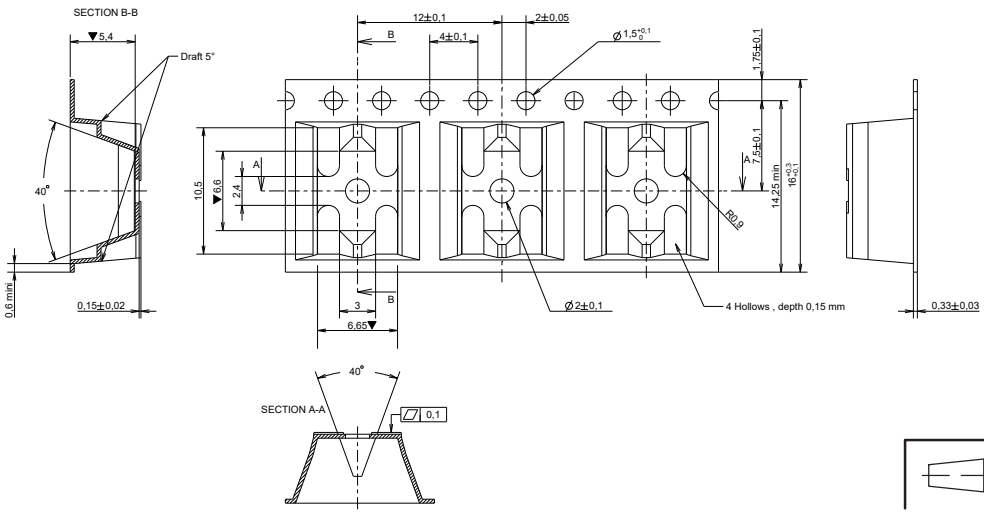
LAYOUT - PAD
SCALE : 5

G Gullwing



LAYOUT - PAD
SCALE : 5

TAPE & REEL



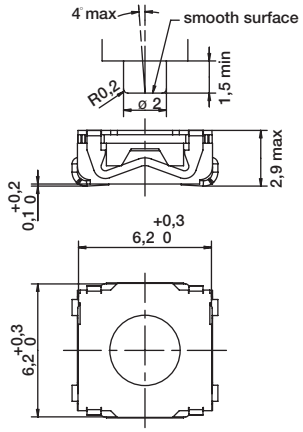
First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

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



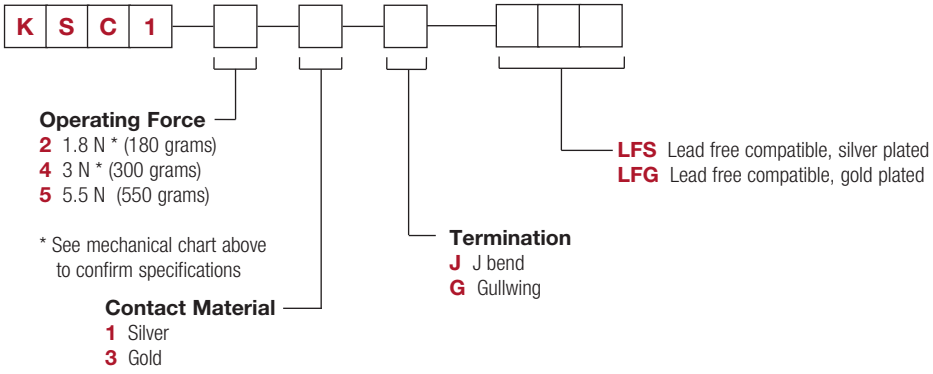
Packaging

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.

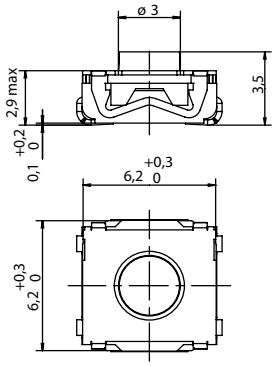


KSC2 Series
Sealed Tact Switch for SMT

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 SPD	3.55 ± 0.9	300,000	0.5 ± 0.2
KSC251 SPD	6.2 ± 1.55	100,000	0.6 ± 0.2



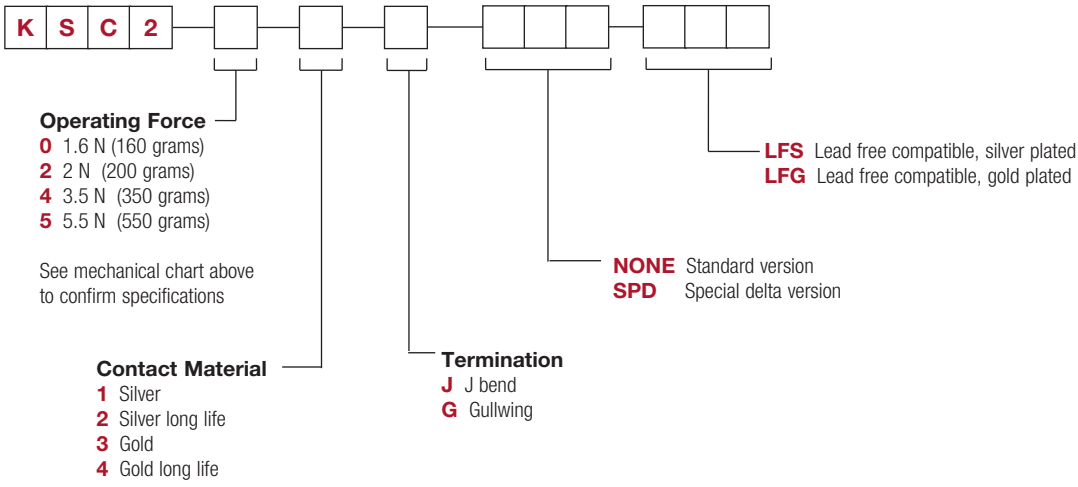
Packaging

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.



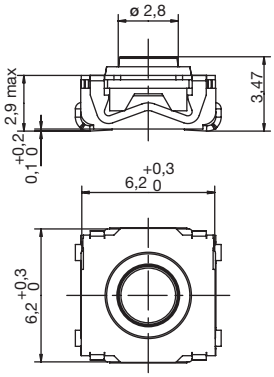
First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

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



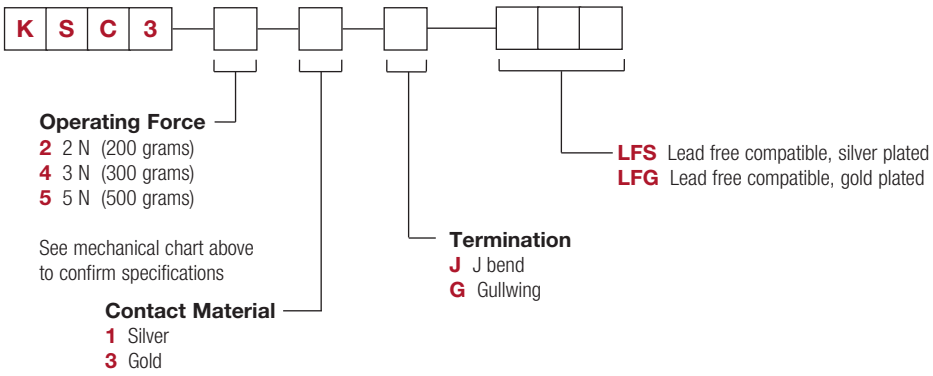
Packaging

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.



First Angle Projection

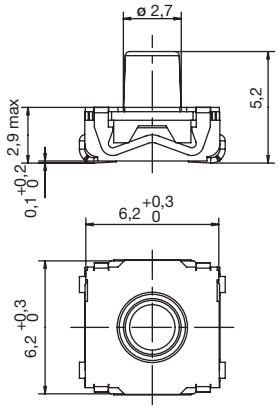
Dimensions are shown: mm
Specifications and dimensions subject to change

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.

K S C 4 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

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

First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

Features/Benefits

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

Typical Applications

- *Automotive*
- *Medical equipment*
- *Industrial electronics*

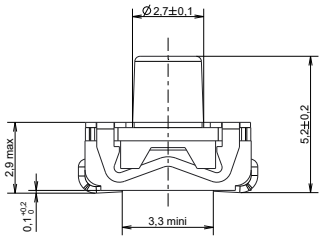


Type	Force (N)	Operating Life (operations)	Travel (mm)
KSC441J DCT 70SH LFS	4.75 +/-1.25	300,000	0.85+0.35/-0.25
KSC441G DCT 70SH LFS	4.75 +/-1.25	300,000	0.85+0.35/-0.25

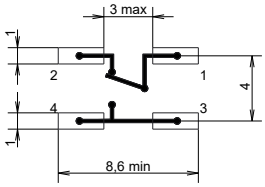
Packaging

In reels of 1,000 pieces.

Dimensions of reels according to EIA RS481 or IEC 2863.
External diameter 330 ± 2 mm

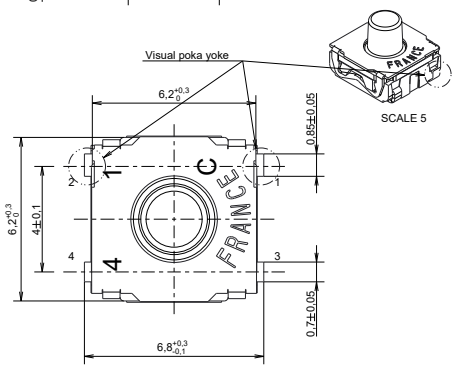


PCB Layout



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.

K	S	C		4		4		1				DCT		70SH		L	F	S

Force
4 4.75 N

Contact Material
1 Silver

Termination
J J bend
G Gull wing

Actuator / Tactile
70SH Silicon 70SH

LFS Lead free compatible, silver plated

First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

KSC-PF Series
Potting Friendly Tact Switch

NEW



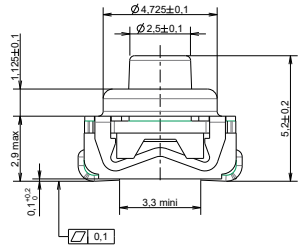
Features/Benefits

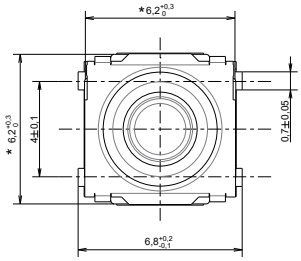
- *Extended Cage*
- *Silicone actuator*
- *J or G terminations*
- *Tape & reel*
- *IP67*

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



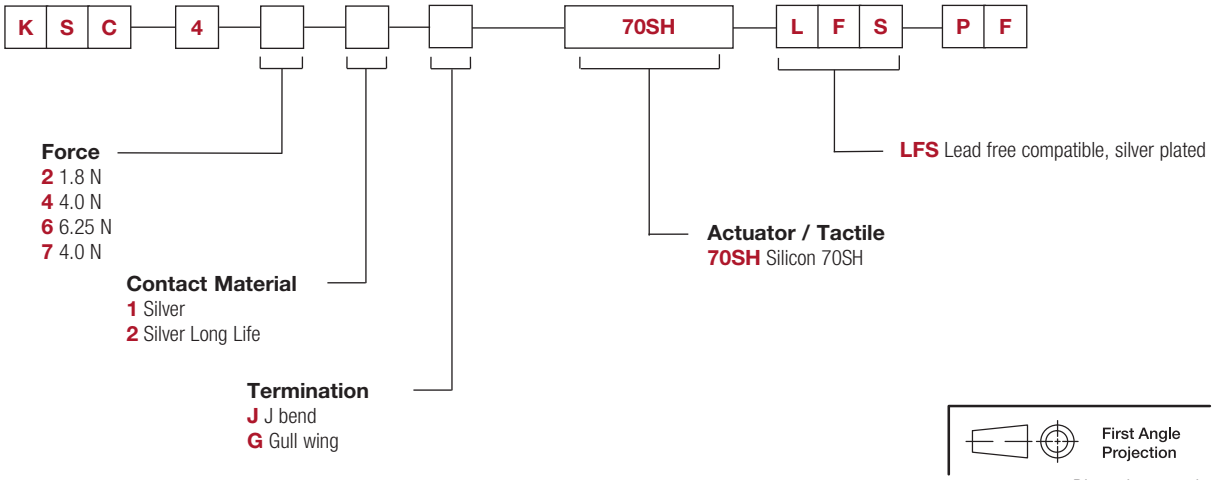


Max. potting height: 2.9 mm

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

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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

NEW

KSC-OF Series
Overload Friendly Tact Switch



Features/Benefits

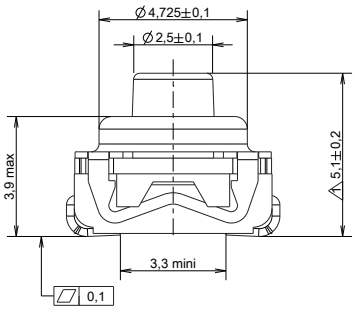
- *Extended cage for mechanical stop*
- *Silicone actuator*
- *J termination*
- *Tape & reel*
- *IP67*

Typical Applications

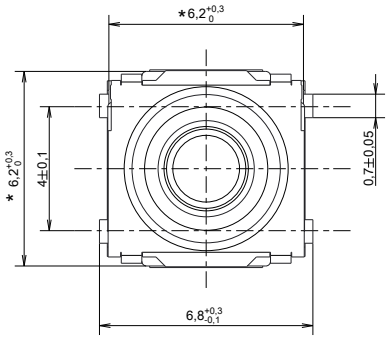
- *Industrial electronics*
- *Consumer*
- *Medical equipment*
- *Automotive interior*

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.

K	S	C	4				70SH	L	F	S	O	F

Force
2 1.65 N
4 4.0 N

Contact Material
1 Silver

Termination
J J bend

Actuator / Tactile
70SH Silicon 70SH

LFS Lead free compatible, silver plated

NEW

KSC-TE Series
Tireless Endurance Tact Switch



Features/Benefits

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

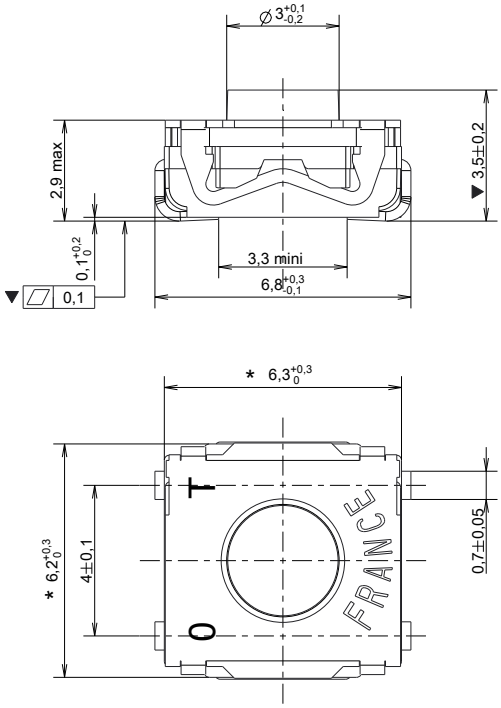
Typical Applications

- *Elevator*
- *Game controllers*
- *Industrial applications*

Type	Force (N)	Life	Travel (mm)
KSC2 TE 01J LFS	1.60+/-0.6	10,000,000	0.3+/-0.2

Life time at **10 million actuations** 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.

K	S	C	2	T	E	0	1	J	L	F	S

Force
0 1.60 N

Contact Material
1 Silver

Termination
J J bend

LFS Lead free compatible, silver plated

KSC5 Series
Tact Switch with Rocker Option for SMT

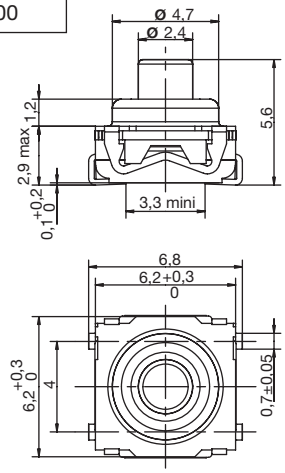
KSC5 hard actuator 5,6 mm high



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

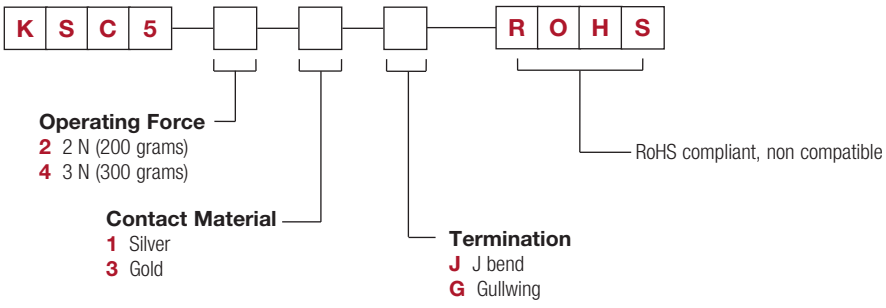
Switches delivered on continuous tape & reels of 1,000 pieces,
dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 330 ± 2 mm



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.



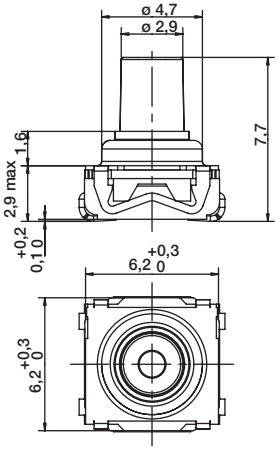
First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

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



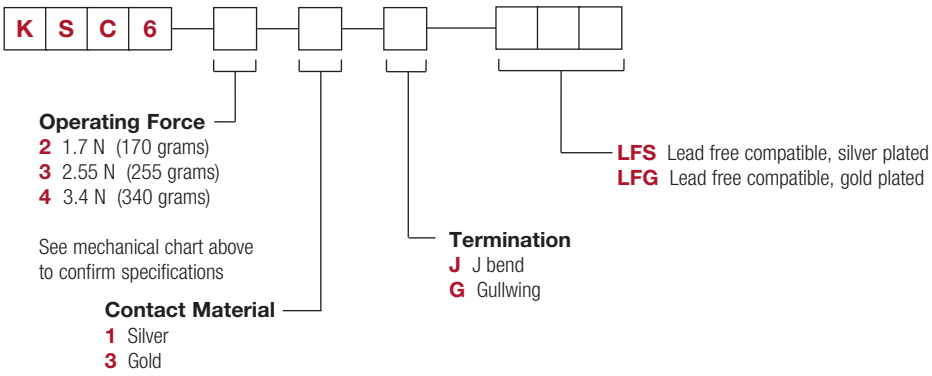
Packaging

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.



First Angle Projection

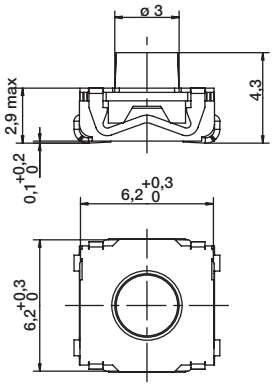
Dimensions are shown: mm
Specifications and dimensions subject to change

KSC7 Series
Sealed Tact Switch for SMT

KSC7 soft actuator 4,3 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



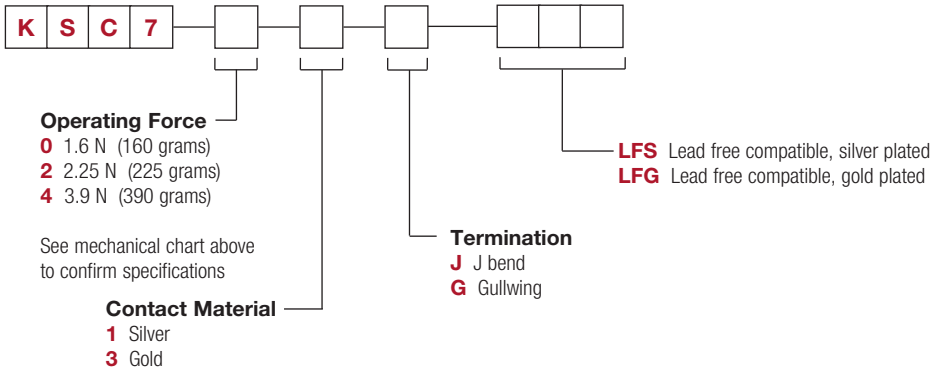
Packaging

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.

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



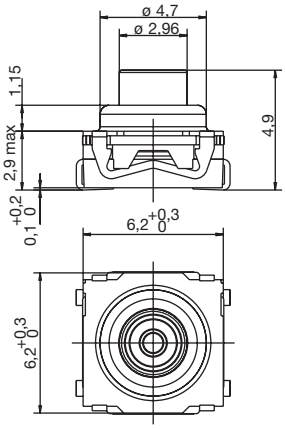
First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

KSC8 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



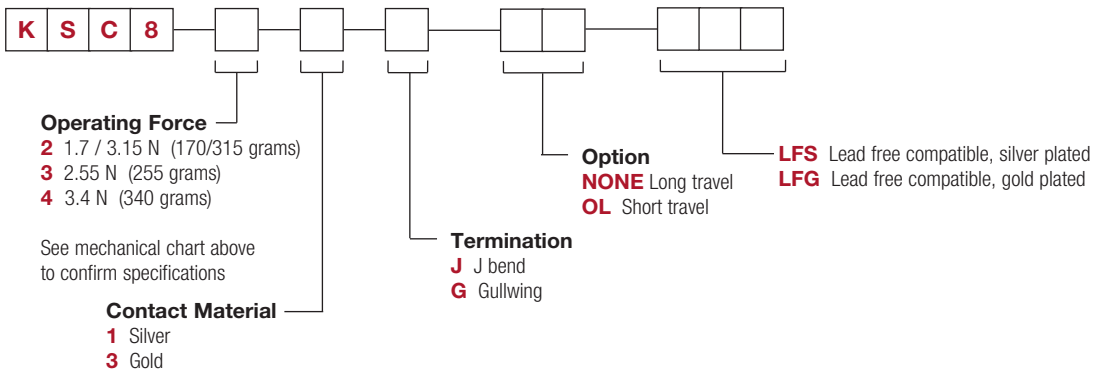
Packaging

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.

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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

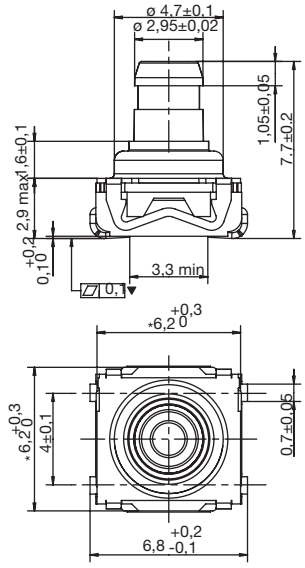
KSC9 Series
Sealed Tact Switches for SMT

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

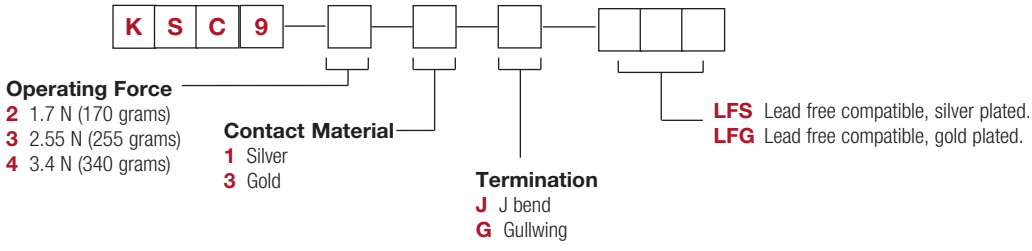


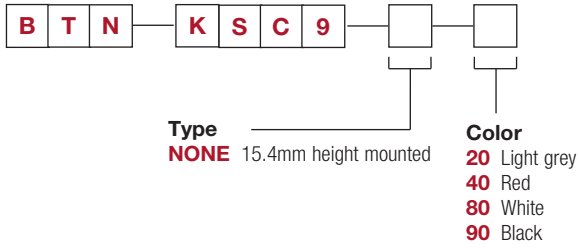
Packaging

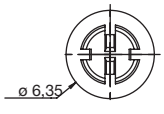
Switches delivered on continuous tape & reels of 750 pieces
Dimensions according to EIA RS-481/ IEC 60286-3 standard
External diameter 380 ± 2 mm

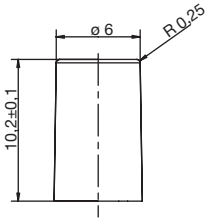
How To Order

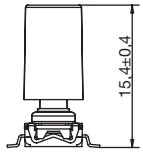
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For any part number different from those listed above, please consult your local representative.











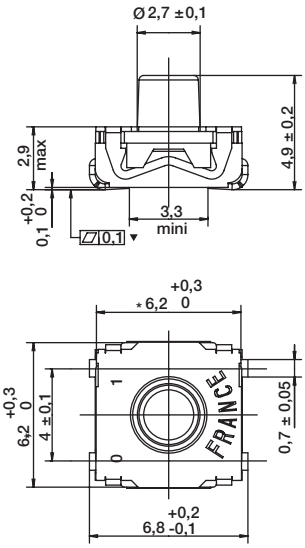
SWITCH WITH CAP

First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

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

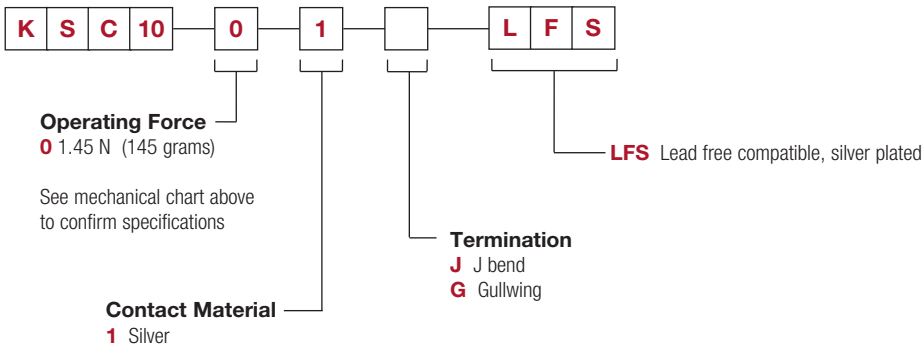
Packaging

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

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

First Angle Projection

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

NOTE: 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): > 10^9 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

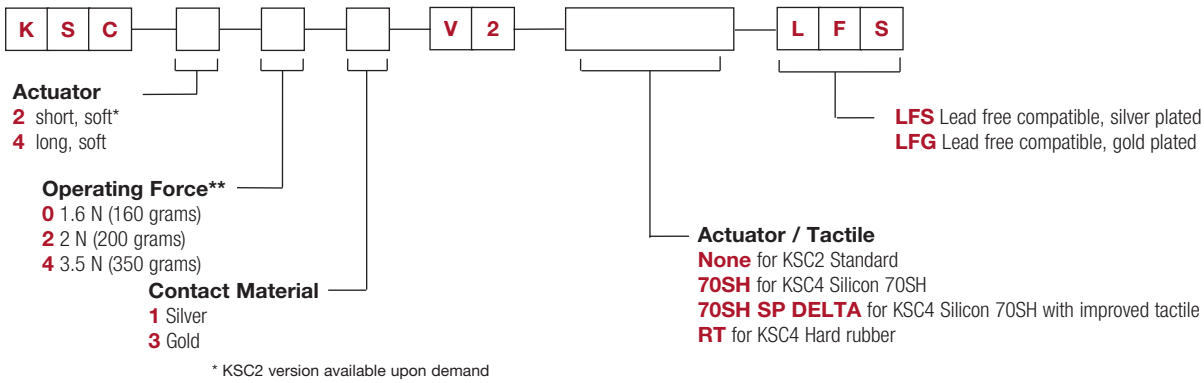
Packaging

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

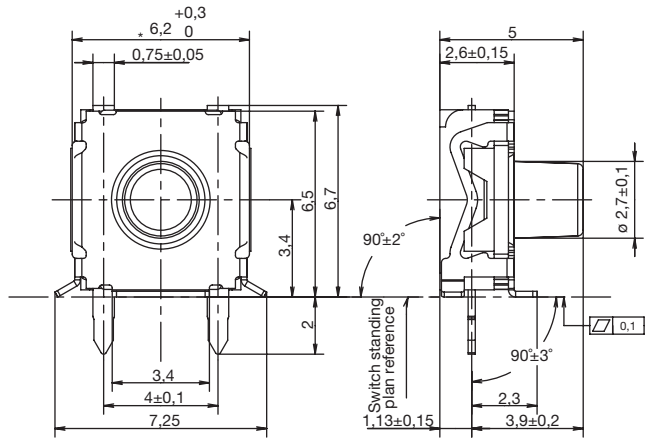
NOTE: This product is designed and manufactured for general electronic devices. For systems where reliability and safety are required, please contact your sales representative to secure product integration and function to secure usage.

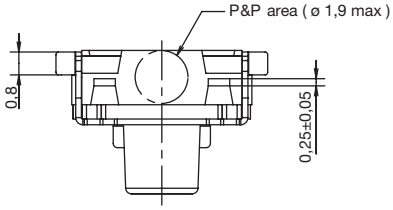
How To Order

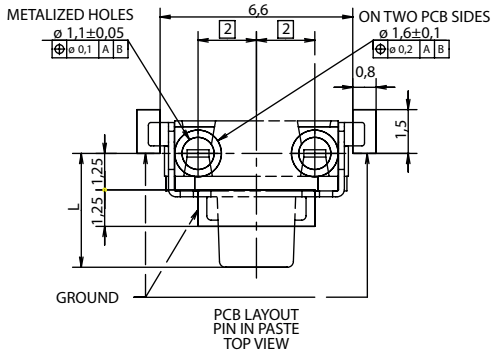
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* KSC2 version available upon demand
** Force available upon demand (variant version)

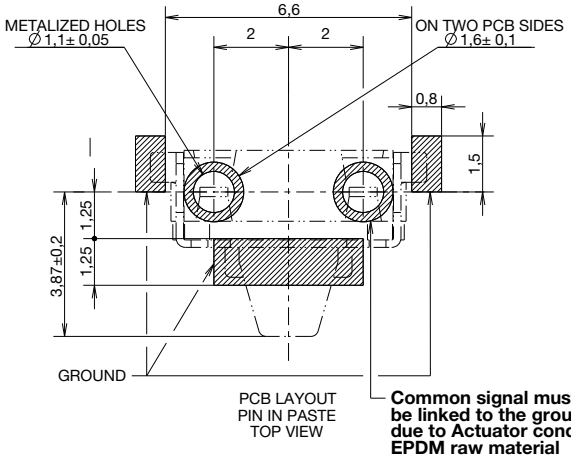






Series	L
KSC2	2,3
KSC4	3,9

IMPORTANT NOTE FOR RT ACTUATOR



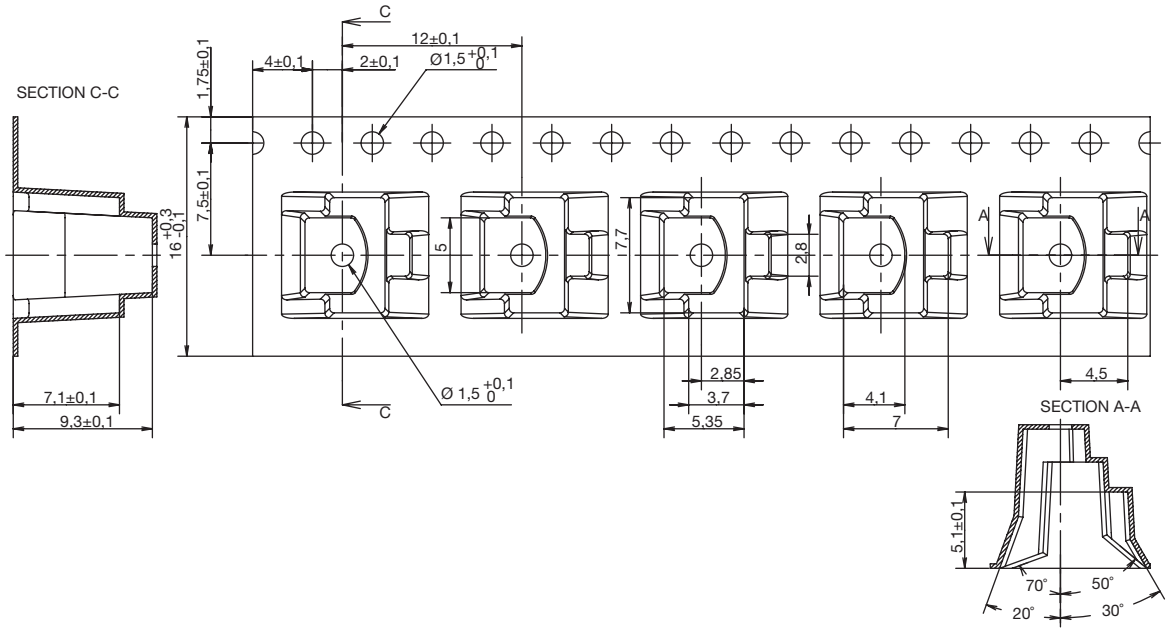
This actuator is not compatible with grease even with restricted contact.

In case of the integration of an actuator or button by the customer, please consult us if use of plasticizer agent for button raw material (risk of chemical migration).

Our actuator contains carbon particles and is electrical conductive. In consequence, customer actuator must be electric insulating raw material.

Due to the cover raw material plating, small tin balls can appear after the reflow soldering process. These small tin balls are located near all cutting areas.

TAPE AND REEL



INTEGRATION

