

KSC2 Series

Sealed Tactile Switch for SMT 6.2 x 6.2 mm,
with 3.5mm Height Soft Actuator



Specifications

Function	Momentary action
Contact Arrangement	1 make contact = SPST, N.O.
Terminals	J bend & Gullwing type for SMT
Sealing	IP67

Electrical Characteristics

Dielectric Strength (50 Hz, 1 min.)	≥ 250 Vrms	
Contact Resistance	≤ 100 m Ω	
Insulation Resistance (100 V)	≥ 1000 M Ω	
Bounce Time	≤ 1 ms	
	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 ¹	0.1 mA

Note:

1. Ultra low current with 10 μ A - 1 VDC version is available upon request

Environmental Characteristics

	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

Description

The KSC2 series of sealed tactile switches for SMT are IP67 rated, 3.5mm high momentary action tactile switches, featuring a soft actuator. The switches are available with a variety of operating forces and in a range of electrical lifespans, depending on model. The KSC2 series are designed to give users a positive adaptable tactile feeling, perfect for consumer-facing applications.

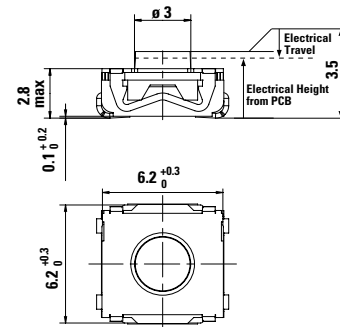
Features & Benefits

- Electrical Height for easier integration due to more precise tolerances
- Soft actuator 3.5mm high
- IP67
- Compatible with lead free reflow soldering process of SMT devices
- Low halogen, RoHS and REACH compliant

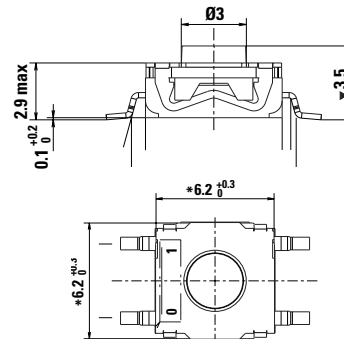
Applications

- Industrial electronics
- Consumer products
- Transportation
- Medical

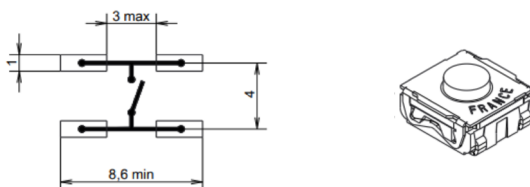
Dimensions (mm) J Termination



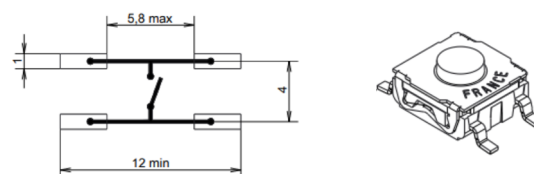
Dimensions (mm) G Termination



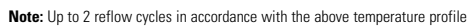
J Terminations (mm)



G Terminations (mm)



Sealed Tactile Switch for SMT 6.2 x 6.2 mm, with 3.5mm Height Soft Actuator



- Terminals being silver or gold plated over a nickel barrier, the use of slightly activated flux is suitable.
- Lead free soldering process in accordance with the definition on the left.

Scale 0.25

Type	Tape & reel
Number of Parts in Packaging	2,000
Other Information	Tape and reel per EIA 481
Transport Conditions	According to specification NF H00-060

KSC2 - x - x - x - x - x

- **Termination**
 - J:** J Bend
 - G:** Gullwing

KSC2 SeriesSealed Tactile Switch for SMT 6.2 x 6.2 mm,
with 3.5mm Height Soft Actuator**Mechanical Characteristics**
Terminal G version

Littelfuse Orderable Part Number	Description	Terminals	Operating Force Fa (Newtons)	Tactile ratio (min)	Operating Life (operations)	Electrical Travel (mm)
Y31B01136FPLFS	KSC201G LFS	G	1.6±0.6	10%	5,000,000	0.3±0.2
Y31B11136FPLFS	KSC221G LFS	G	2.25±0.55	10%	500,000	0.35+0.25/-0.15
Y31B12136FPLFS	KSC222G LFS	G	2.25±0.55	10%	1,000,000	0.35+0.25/-0.15
Y31B13136FPLFG	KSC223G LFG	G	2.25±0.55	10%	500,000	0.35+0.25/-0.15
Y31B41136FPLFS	KSC241G LFS	G	3.5±0.9	15%	300,000	0.5±0.2
Y31B42136FPLFS	KSC242G LFS	G	3.5±0.9	15%	1,000,000	0.5±0.2
Y31B43136FPLFG	KSC243G LFG	G	3.8±1	15%	300,000	0.5±0.2
Y31B52136FPLFS	KSC252G LFS	G	6±1.5	15%	1,000,000	0.6±0.2
Y31B53136FPLFG	KSC253G LFG	G	5.55±1.45	15%	300,000	0.5±0.2

Special Delta Version

Littelfuse Orderable Part Number	Description	Terminals	Operating Force Fa (Newtons)	Tactile ratio (min)	Operating Life (operations)	Electrical Travel (mm)
Y31B31136FPLFS	KSC231G SP DELTA LFS	G	3.5±0.9	25%	300,000	0.5±0.2
Y31B44138FPLFG	KSC244G SP DELTA LFG	G	3.55±0.9	30%	800,000	0.5±0.2

Terminal J version

Littelfuse Orderable Part Number	Description	Terminals	Operating Force Fa (Newtons)	Tactile ratio (min)	Operating Life (operations)	Electrical Travel (mm) (for information only)	Electrical Height from PCB (mm)
Y31B01132FPLFS	KSC201J LFS	J	1.6±0.6	10%	5,000,000	0.3	3.35±0.2
Y31B11132FPLFS	KSC221J LFS	J	2.25±0.55	10%	500,000	0.25	3.25±0.2
Y31B12132FPLFS	KSC222J LFS	J	2.25±0.55	10%	1,000,000	0.35	3.25±0.2
Y31B13132FPLFG	KSC223J LFG	J	2.25±0.55	10%	500,000	0.25	3.25±0.2
Y31B41132FPLFS	KSC241J LFS	J	3.5±0.9	15%	300,000	0.5	3±0.2
Y31B42132FPLFS	KSC242J LFS	J	3.5±0.9	15%	1,000,000	0.5	3±0.2
Y31B43132FPLFG	KSC243J LFG	J	3.8±1	15%	300,000	0.5	3±0.2
Y31B51132FPLFS	KSC251J LFS	J	5.55±1.45	15%	300,000	0.5	2.95±0.2
Y31B52132FPLFS	KSC252J LFS	J	6±1.5	15%	1,000,000	0.55	2.95±0.2
Y31B53132FPLFG	KSC253J LFG	J	5.55±1.45	15%	300,000	0.55	2.95±0.2
Y31B54132FPLFG	KSC254J LFG	J	6±1.5	15%	1,000,000	0.55	2.95±0.2

Special Delta Version

Littelfuse Orderable Part Number	Description	Terminals	Operating Force Fa (Newtons)	Tactile ratio (min)	Operating Life (operations)	Electrical Travel (mm) (for information only)	Electrical Height from PCB (mm)
Y31B31132FPLFS	KSC231J SP DELTA LFS	J	3.5±0.9	25%	300,000	0.4	3.1±0.2
Y31B33132FPLFG	KSC233J SPECIAL DELTA LFG	J	3.5±0.9	25%	300,000	0.4	3.1±0.2
Y31B41137FPLFS	KSC241J SP DELTA LFS	J	3.55±0.9	30%	300,000	0.4	3.1±0.2
Y31B42137FPLFS	KSC242J SP DELTA LFS	J	3.55±0.9	30%	800,000	0.4	3.1±0.2
Y31B43137FPLFG	KSC243J SP DELTA LFG	J	3.55±0.9	30%	300,000	0.4	3.1±0.2
Y31B44137FPLFG	KSC244J SP DELTA LFG	J	3.55±0.9	30%	800,000	0.4	3.1±0.2
Y31B51137FPLFS	KSC251J SP DELTA LFS	J	6.2±1.55	35%	100,000	0.55	2.95±0.2
Y31B53137FPLFG	KSC253J SP DELTA LFG	J	6.2±1.55	35%	100,000	0.55	2.95±0.2

Note: Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.**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.

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