

KSC11 Series

Sealed Tactile Switch for SMT 6.2 x 6.2 mm,
with 3.9 mm Height Hard Actuator



Specifications

Function	Normally Open
Contact Type	SPST NO
Terminals	J bend for SMT
Contact Material	Silver plated
Sealing	IP67

Electrical Characteristics

Maximum Power	1 VA
Min. / Max. Voltage	0.02V - 32V
Min. / Max. Current	1 - 50 mA
Dielectric Strength	250 Vrms
Contact Resistance	≤ 100 mΩ
Insulation Resistance	(100 V): 1000 MΩ
Bounce Time	≤ 5 ms

Environmental Characteristics

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 85°C

Part #	Marking
KSC1101J LFS	01
KSC1131J LFS	31
KSC1151J LFS	No Marking

Description

The KSC11 series of sealed tactile switches for SMT are IP67 rated, 3.9 mm high momentary action tactile switches, featuring a hard actuator. The switches are available with a variety of operating forces depending on the model. The KSC11 series are designed to give users a positive tactile feeling, and due to the high tactile ratio and long lifetime of up to 3,000,000 cycles are ideal for avionics / industrial consoles, gaming, drones, or any other demanding applications.

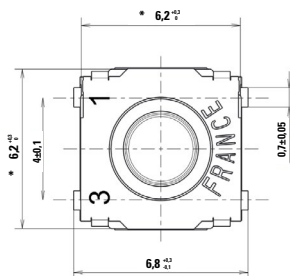
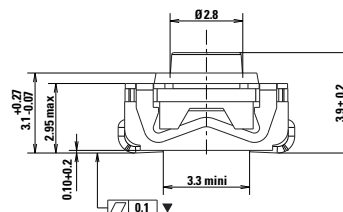
Features & Benefits

- Hard actuator
- Long life
- Positive tactile feeling
- IP67 sealed
- SMT
- Compatible with lead free reflow soldering process of SMT devices
- Low halogen, RoHS and REACH compliant

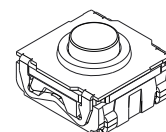
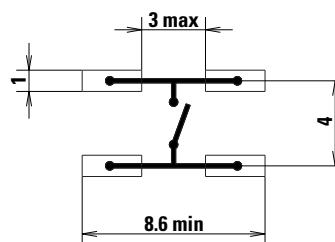
Applications

- Gaming/ Drones
- Industrial
- Medical
- High-end consumer
- Avionics

Dimensions (in mm)



J Terminations (mm)



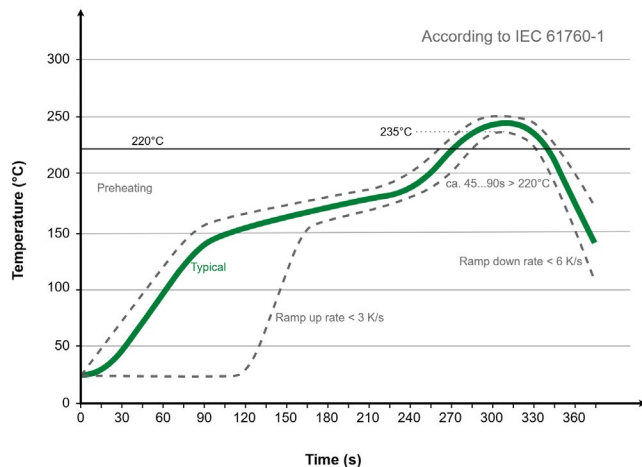
Layout - Pad

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Soldering Profile

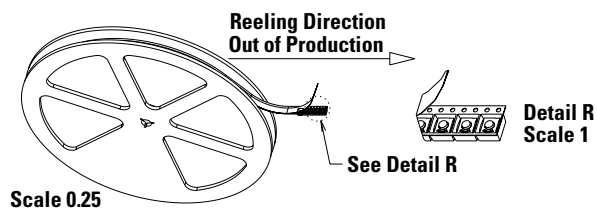


Note: Up to 2 reflow cycles in accordance with the above temperature profile

Soldering process: 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.
- Lead free soldering process in accordance with the definition on the left.

Tape & Reel



Packaging Details

Type	Tape & reel, External diameter 380 ± 2 mm , Width of carrier tape: 16 mm
Number of Parts in Packaging	1,700
Other Information	Tape and reel per EIA 481
Transport Conditions	According to specification NF H00-060

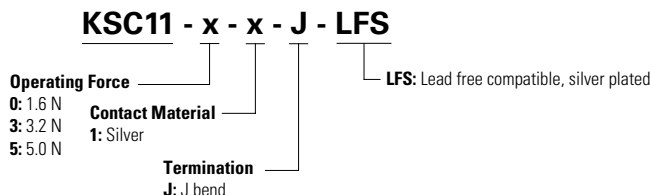
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Ordering Number

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.



Mechanical Characteristics

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Electrical Travel (mm)
✓	Y31G21W10FP	KSC1101J LFS	Silver	J	1.6±0.4	Min 25%	3,000,000	0.2±0.1
✓	Y31G41W10FP	KSC1131J LFS	Silver	J	3.2±0.8	Min 25%	2,000,000	0.25±0.15
✓	Y31GF1W10FP	KSC1151J LFS	Silver	J	5±1	Min 25%	1,000,000	0.4±0.15

Note: Supply status: ✓ : Available for ordering.

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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