

KSC6 Series

Sealed Tactile Switch for SMT 6.2 x 6.2 mm,
with 7.7 mm Height Hard Actuator



Specifications

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

Electrical Characteristics

	Silver	Gold
Max. Power	1 VA	0.2 VA
Max. Voltage	32 VDC	32 VDC
Min. Voltage	20 mV	20 mV
Max. Current	50 mA	10 mA
Min. Current	1 mA	0.1 mA
Dielectric Strength	(50 Hz, 1 min.): ≥ 250 Vrms	
Contact Resistance	≤ 100 m Ω	
Insulation Resistance	(100 V): ≥ 1000 M Ω	
Bounce Time	≤ 1 ms	

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 KSC6 series of sealed tactile switches for SMT are IP67 rated, 7.7 mm high momentary action tactile switches, featuring a hard actuator. The switches are available with a variety of operating forces and have an operating life of 300,000 cycles. The KSC6 series are designed to give users a positive adaptable tactile feeling, perfect for industrial electronics, consumer products and automotive applications.

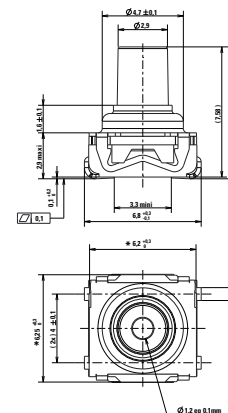
Features & Benefits

- Positive adaptable tactile feeling
- Hard actuator 7.7mm high
- IP67
- RoHS and REACH compliant
- Compatible with lead free reflow soldering process of SMT devices
- J and G terminations

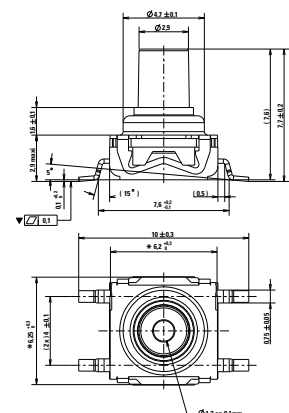
Applications

- Industrial electronics
- Consumer products
- Automotive
- Transportation
- Medical

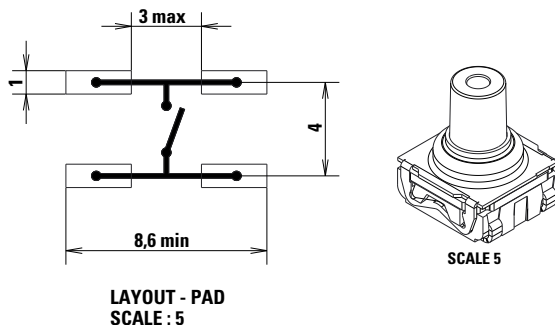
J Dimensions (mm)



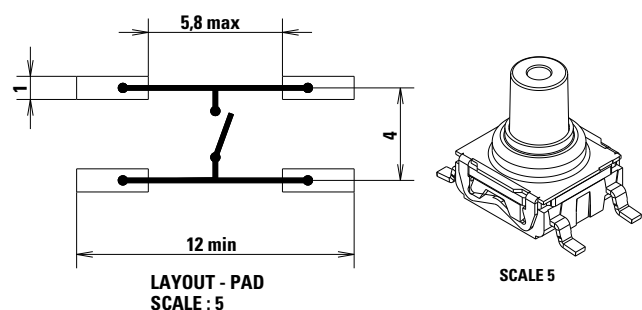
G Dimensions (mm)



J Terminations (mm)



G Terminations (mm)

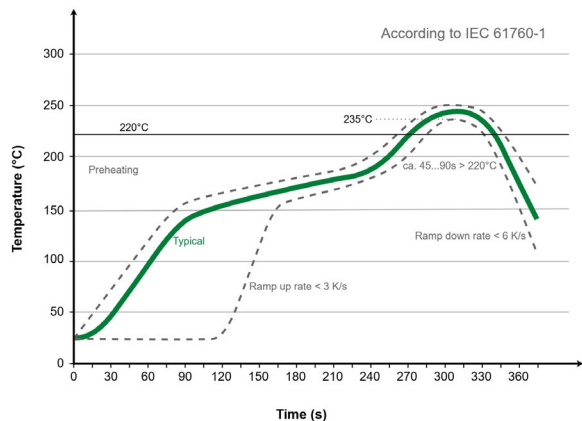


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Soldering Profile



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.

Packaging Details

Type	Tape & reel, External diameter 380 ± 2 mm
Number of Parts in Packaging	950
Other Information	Tape and reel per EIA 481
Transport Conditions	According to specification NF H00-060

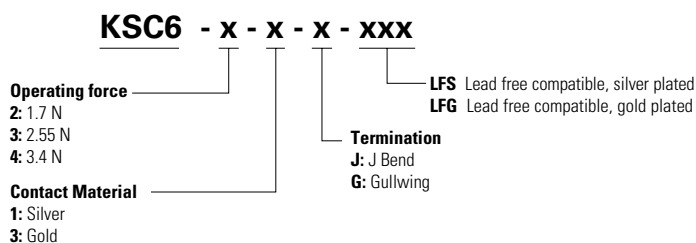
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Ordering Number

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 below, please consult your local representative.



Mechanical Characteristics

Standard versions

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Electrical Travel (mm)
✓	Y31A21051FPLFS	KSC621J LFS	Silver	J	1.7±0.5	20%	300,000	0.4±0.2
✓	Y31A21055FPLFS	KSC621G LFS	Silver	G	1.7±0.5	20%	300,000	0.4±0.2
✓	Y31A23051FPLFG	KSC623J LFG	Gold	J	1.7±0.5	20%	300,000	0.4±0.2
✓	Y31A23055FPLFG	KSC623G LFG	Gold	G	1.7±0.5	20%	300,000	0.4±0.2
✓	Y31A41051FPLFS	KSC641J LFS	Silver	J	3.4±0.85	25%	300,000	0.4±0.2
✓	Y31A41055FPLFS	KSC641G LFS	Silver	G	3.4±0.85	25%	300,000	0.4±0.2
✓	Y31A43051FPLFG	KSC643J LFG	Gold	J	3.4±0.85	25%	300,000	0.4±0.2
✓	Y31A43055FPLFG	KSC643G LFG	Gold	G	3.4±0.85	25%	300,000	0.4±0.2
✓	Y31AG1W51FPLFS	KSC631J LFS	Silver	J	2.55±0.65	25%	300,000	0.4±0.2
✓	Y31AG1W55FPLFS	KSC631G LFS	Silver	G	2.55±0.65	25%	300,000	0.4±0.2
✓	Y31AG3W51FPLFG	KSC633J LFG	Gold	J	2.55±0.65	25%	300,000	0.4±0.2
✓	Y31AG3W55FPLFG	KSC633G LFG	Gold	G	2.55±0.65	25%	300,000	0.4±0.2

Overload versions

Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Operating Life Under 10N	Electrical Travel (mm)
✓	Y31A21W55FPLFS	KSC621G OL LFS	Silver	G	1.7±0.5	20%	300,000	100,000	0.4±0.2

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.