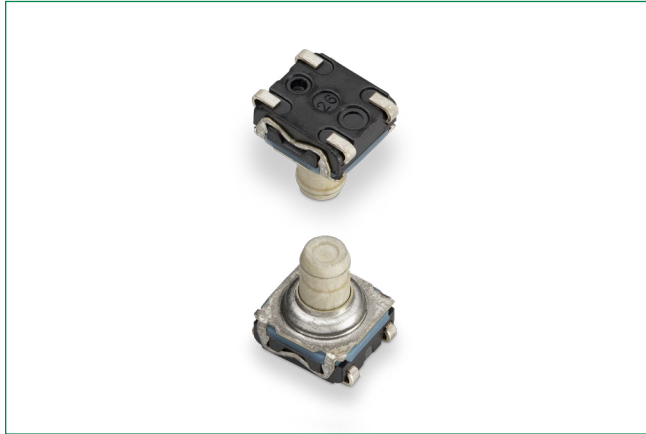


KSC9 Series

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



Description

The KSC9 series of sealed tactile switches for SMT are IP67 rated, 7.7 mm high momentary action tactile switches, featuring a hard actuator compatible with button. The switches are available with a variety of operating forces depending on model and have a lifespan of 300,000 cycles.

The KSC9 series are designed to give users a positive adaptable tactile feeling, perfect for industrial electronics and consumer, automotive and instrumentation applications

Features & Benefits

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

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	0.1 mA

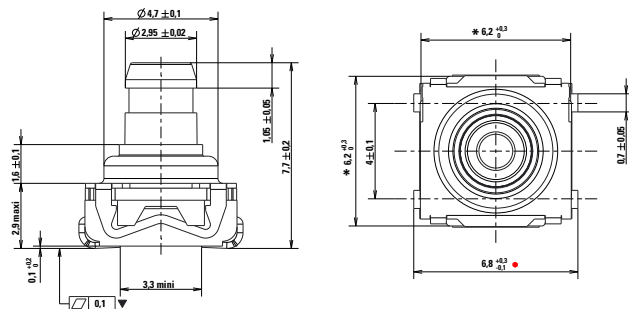
Environmental Characteristics

	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

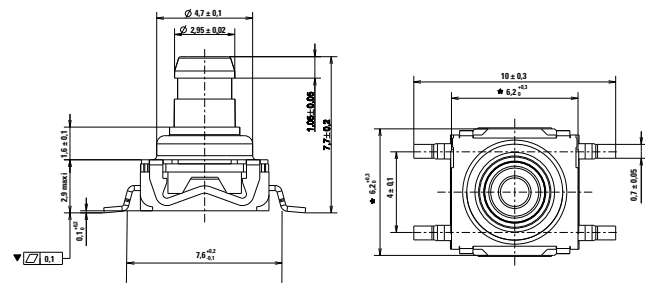
Applications

- Industrial electronics
- Instrumentation
- Transportation
- Consumer

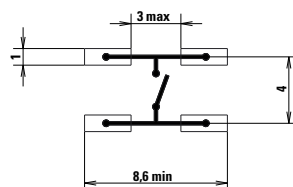
Dimensions (mm) J Termination



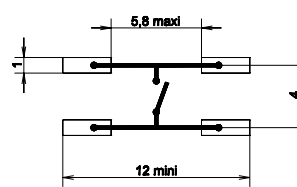
Dimensions (mm) G Termination



J Terminations (mm)



G Terminations (mm)

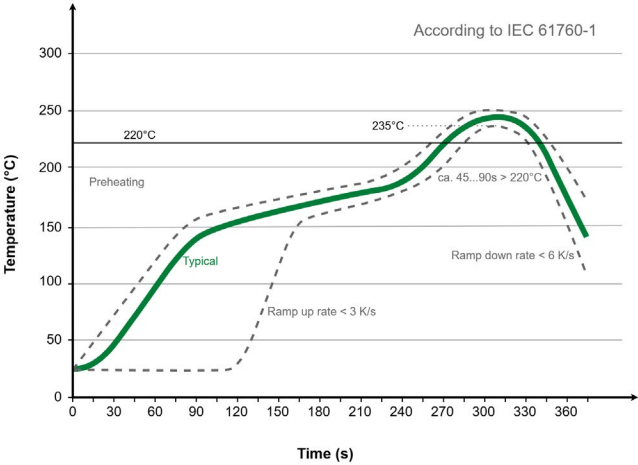


KSC9 Series

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



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

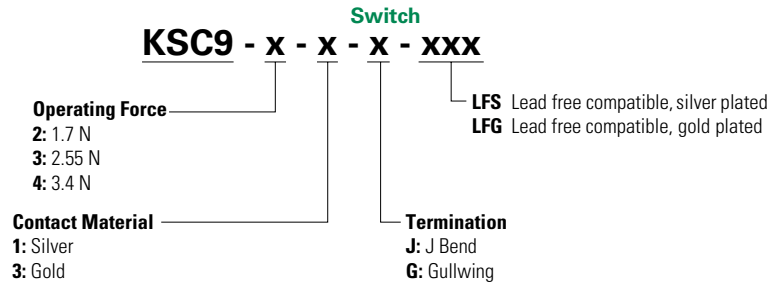
KSC9 Series

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



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.

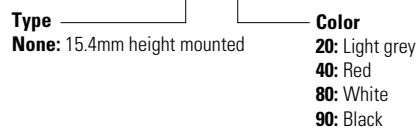


Supply Status	LITTELFUSE Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Operating Force Fa (Newtons)	Tactile ratio (Min)	Operating Life (Operations)	Electrical Travel (mm)
✓	Y31A21S91FPLFS	KSC921J LFS	Silver	J	1.7±0.5	Min 20%	300,000	0.4±0.2
✓	Y31A21S96FPLFS	KSC921G LFS	Silver	G	1.7±0.5	Min 20%	300,000	0.4±0.2
✓	Y31A31S91FPLFS	KSC931J LFS	Silver	J	2.55±0.65	Min 25%	300,000	0.4±0.2
✓	Y31A31S96FPLFS	KSC931G LFS	Silver	G	2.55±0.65	Min 25%	300,000	0.4±0.2
✓	Y31A33S91FPLFG	KSC933J LFG	Gold	J	2.55±0.65	Min 25%	300,000	0.4±0.2
✓	Y31A33S96FPLFG	KSC933G LFG	Gold	G	2.55±0.65	Min 25%	300,000	0.4±0.2
✓	Y31A41S91FPLFS	KSC941J LFS	Silver	J	3.4±0.85	Min 25%	300,000	0.4±0.2
✓	Y31A41S96FPLFS	KSC941G LFS	Silver	G	3.4±0.85	Min 25%	300,000	0.4±0.2
✓	Y31A43S91FPLFG	KSC943J LFG	Gold	J	3.4±0.85	Min 25%	300,000	0.4±0.2

Note: Supply Status: ✓ : Available for ordering

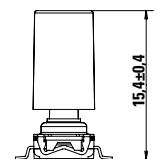
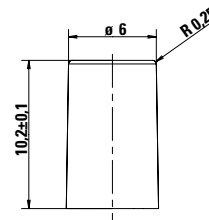
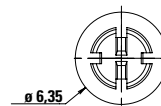
Button

BTN - KSC9 - x - x



Supply Status	LITTELFUSE Orderable Part Number	Description	Button Color
✓	Y310091100P	BTN KSC9 20 LIGHT GRAY 7035	Light Grey
✓	Y310091400P	BTN KSC9 40 RED 3020	Red
✓	Y310091000P	BTN KSC9 80 WHITE 9003	White
✓	Y310091900P	BTN KSC9 90 BLACK 9004	Black

Note: Supply Status: ✓ : Available for ordering



SWITCH WITH CAP

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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