



Specifications Momentary Action

Function

	,	
Contact Arrangement	1 make contact = SPST, N.O.	
Distance Between Button Centers (min.)	7.62 (0.300)	
Terminals	PC pins	
Sealing	IP60	
Packaging	Delivered in boxes of 250 pieces	

Electrical Characteristics

	Silver	Gold	
Maximum Power	1 VA	0.2 VA	
Min. / Max. Voltage	20 mV - 32 VDC		
Min. / Max. Current	1 - 50 mA	1 - 10 mA	
Dielectric Strength	(50 Hz, 1 min.): ≥ 250 Vrms		
Contact Resistance	≤ 100 mΩ		
Insulation Resistance	(100 V): ≥ 10 ⁹ ohms		
Bounce Time	≤ 1 ms		

Environmental Characteristics

	Silver	Gold	
Operating Temperature	-40°C to 85°C	-40°C to 125°C	
Storage Temperature	-40°C to 85°C	-55°C to 125°C	

Process

Soldering	Wave soldering compatible with lead free soldering profile.

Note: Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center. This data sheet does not provide enough information for applications which require a certain level of quality or safety such as automotive, medical systems, safety equipment. Please contact your sales representative to get contractual specification package. Please contact your representive for any question regarding the product intergration.

Description

The KSJ series spherical actuator tactile switch is designed for mechanisms found in cranes, off-road and railway products, as well as in factory automation and automotive applications. It features compliant side actuation and its spherical actuator allows an actuation force off center \pm 30°, with regard to vertical.

Features & Benefits

- Spherical actuator allows actuation force off center ± 30° with regard to vertical
- RoHS compliant and compatible

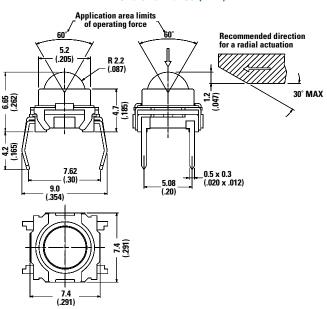
Applications

- Transportation
- Cranes, off-road, railway
- Factory automation

Designed for mechanisms

Compliant side actuation

Security systems



Dimensions inches (mm)

ELittelfuse

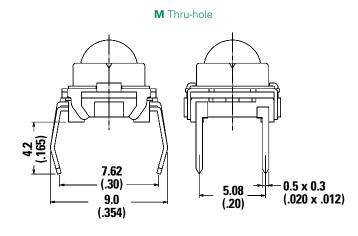


Mechanical Characteristics

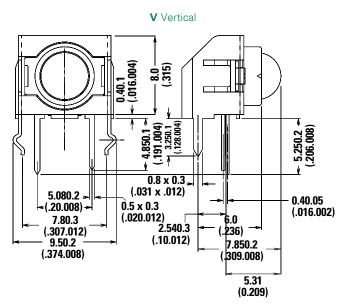
Part #	Actuation Force N (grams)	Operating Life (operations) axial	Operating Life (operations) radial	Travel to make (mm)
KSJ0M21160SH	2 ± 0.5	100,000	30,000	0.6 ± 0.3
KSJ0M41180SH	3.0 ± 0.8	100,000	30,000	0.55 ± 0.25
KSJ0M21180SH	2 ± 0.5	100,000	30,000	0.35 ± 0.2
KSJ0M91180SH	3.9 ± 0.8	100,000	30,000	0.7 ± 0.25

Notes:

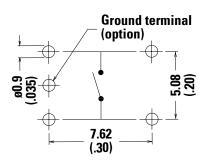
Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service. This datasheet does not provide enough information for applications which require a certain level of quality or safety such as automotive, medical systems or safety equipment. Please contact your sales representative to get contractual specification package. Please contact your customer service representative for any question regarding the product intergration.



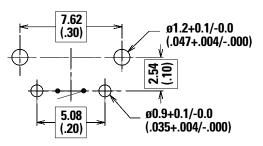
Insertion



PCB Layout



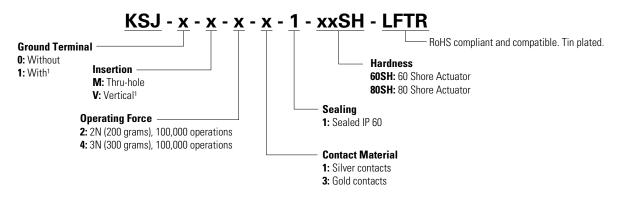
PCB Layout





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. 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.



1. "1" ground terminal option not available with "V" version. The bracket for the "V" version plays this role.

Notes

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at http://www.littelfuse.com/disclaimer-electronics.

