

KSJ Series

Spherical Actuator Tact Switches

Features/Benefits

- Spherical actuator allows actuation force off center $\pm 30^\circ$ with regard to vertical
- Total travel 1.6 mm
- Sealed against flux

Typical Applications

- Automotive
- Cranes, off road, railway
- Factory automation
- Security systems



Specification

FUNCTION: Momentary action
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.
DISTANCE BETWEEN BUTTON CENTERS (min.): 7.62 (0.300)
TERMINALS: PC pins

Environmental

	Silver	Gold
OPERATING TEMPERATURE:	-40°C to 90°C	-40°C to 125°C
STORAGE TEMPERATURE:	-40°C to 85°C	-55°C to 125°C

Packaging

Delivered in boxes of 500 pieces.

Mechanical

Type	Actuation force N (grams)	Operating life (operations) axial	Operating life (operations) radial	Travel to make
KSJ0M211	2.0 (200)	100,000	30,000	0,7 $\pm$ 0,25
KSJ0M411	3.0 (300)	100,000	30,000	0,55 $\pm$ 0,25

Electrical

	Silver	Gold
MAXIMUM POWER:	1 VA	0.2 VA
MAXIMUM VOLTAGE:	50 VDC	50 VDC
MINIMUM VOLTAGE:	20 mV	20 mV
MAXIMUM CURRENT:	50 mA	50 mA
MINIMUM CURRENT:	1 mA	1 mA

DIELECTRIC STRENGTH (50 Hz, 1 min.): ≥ 300 Vrms
CONTACT RESISTANCE: ≤ 50 m Ω
INSULATION RESISTANCE (100V): $> 10^{11}$ Ω
BOUNCE TIME: < 1 ms

Process

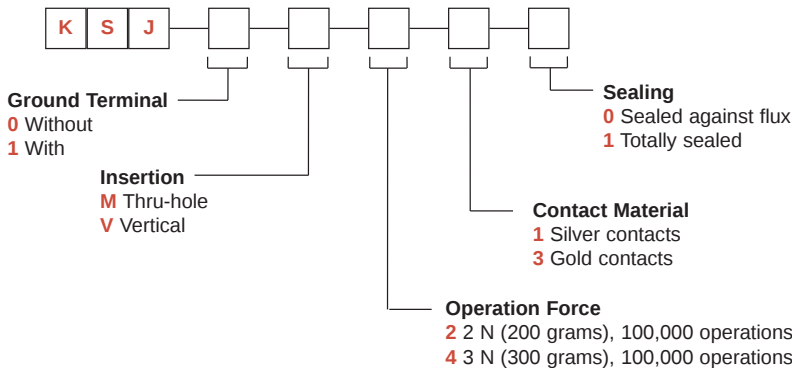
SOLDERING: Protected against flux and is compatible with the following soldering processes:

- Fluxing of PCB bottom side
- Preheating at 85°C
- Wave soldering (Tin/Lead 40-60) 250°C for 2 sec.
- Cooling down to ambient temperature.
- Eventual cleaning by brushing on soldered side. TMS Freon to be avoided.

NOTE: Part numbers listed above do not represent all possible configurations. For information on specific and custom switches, consult Customer Service Center.

How To Order

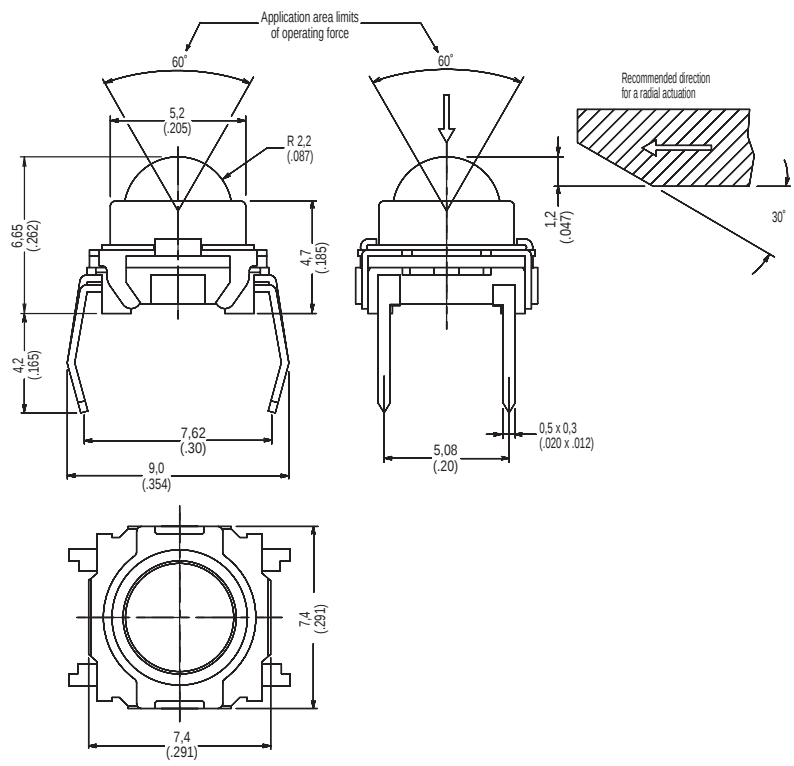
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



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SERIES ■ ■ ■ ■ ■ ■ ■ ■

KSJ



KSJ0M211

B
Tactile Switches

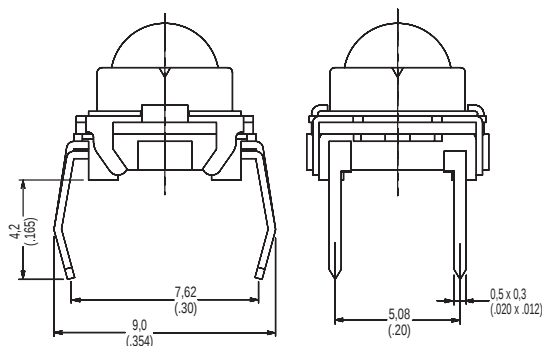
GROUND TERMINAL ■ ■ ■ ■ ■ ■ ■ ■

- 0 WITHOUT
- 1 WITH

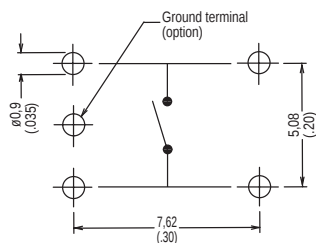
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INSERTION

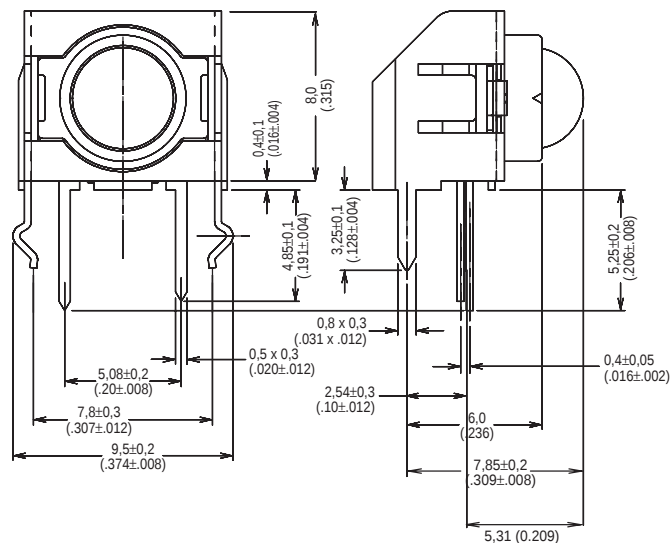
M THRU-HOLE



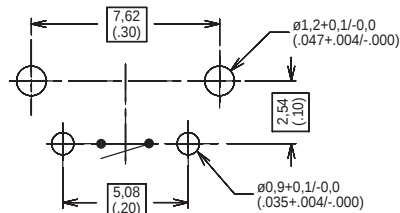
PCB LAYOUT



V VERTICAL



PCB LAYOUT



OPERATING FORCE

OPTION CODE	OPERATING FORCE
2	2 N (200 grams)
4	3 N (300 grams)

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL
1	Silver contacts
3	Gold contacts

SEALING

OPTION CODE	SEALING
0	Sealed against flux
1	Totally sealed