

KSC OF Series

Overload Friendly Sealed Tactile Switch, for SMT 6.2 x 6.2 mm



Specifications

Function	Normally open
Contact Arrangement	SPST NO
Terminals	J bend for SMT
Contact Material	Silver plated
Sealing	IP67

Electrical Characteristics

Max. Power	1 VA
Min./Max. Voltage	0.02 V / 32 V
Min./Max. Current DC	1mA / 50 mA
Dielectric Strength	250 Vrms
Contact Resistance	≤ 100 mΩ
Insulation Resistance	1000 MOhm
Bounce Time	5 ms

Environmental Characteristics

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

Process

Packaging	In reels of 1,000 pieces Dimensions according to EIA RS-481/ IEC 2863 External diameter 330 ± 2 mm
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Description

KSC OF series overload friendly tactile switch, the new configuration of KSC with soft silicone actuator, J leads and raised cage to accept life time overload. The tact switch comes in tape and reel packaging.

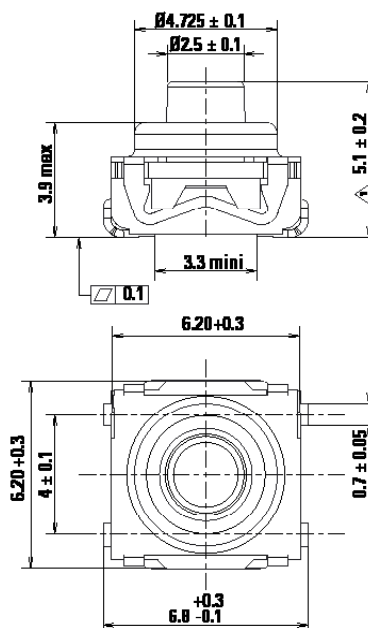
Features & Benefits

- Extended cage for mechanical stop
- Silicone actuator
- J termination
- Life time overload (300,000 cycles at 20N)
- Tape & reel
- IP67
- Overload value 200N (one time)

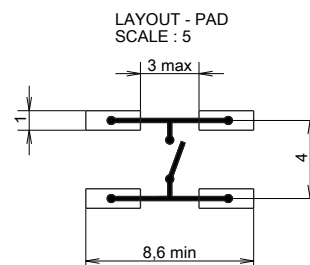
Applications

- Industrial electronics
- Consumer
- Medical equipment
- Automotive interior

Dimensions



J Terminations

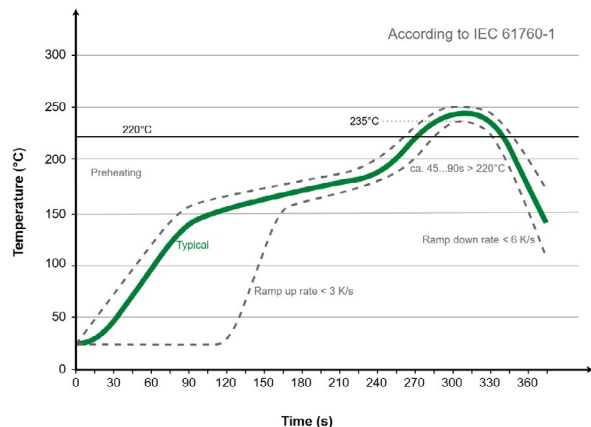


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Soldering Profile



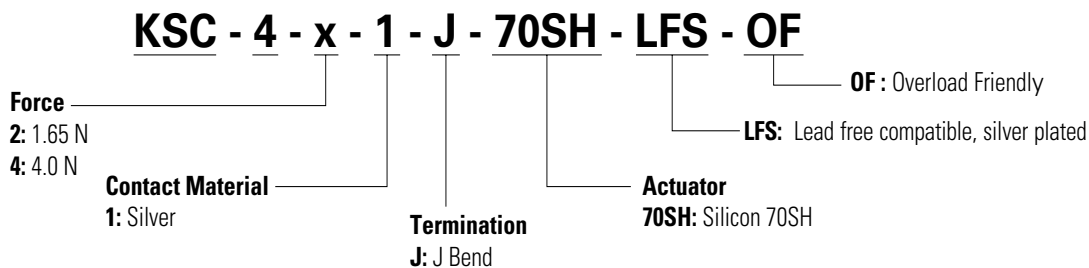
Soldering process: Depending on the application, this component is suited to the following methods:

- Terminals being silver over a nickel barrier, the use of slightly activated flux is suitable.
- Lead free soldering process in accordance with the definition on the left.

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

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)
✓	Y31C21W4LFPLFS	KSC421J 70SH LFS OF	Silver	J	1.65±0.45	Min 15%	300,000	0.5±0.25
✓	Y31CJ1W4LFPLFS	KSC441J 70SH LFS OF	Silver	J	4±1	Min 15%	300,000	0.65+0.3/-0.2

Note: *Life time is 300,000 cycles at 20N actuation force.
The extended cage can be used as mechanical stop for the activation button
Overload value reaches 200N (one time)
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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