KSR SeriesSub-Miniature Tactile Switch for SMT 6.0 x 3.8 mm, with 2.5 mm Height Soft Actuator





Specifications

Function	Momentary action	
Contact Arrangement	Normally Open (standard versions) Normally Closed (NC versions)	
Terminals	Gullwing type for SMT	
Overload	20 Newtons	

Electrical Characteristics

	Silver	Gold	
Maximum Power	1 VA	0.2 VA	
Min. / Max. Voltage	20 mV - 32VDC		
Min. / Max. Current	1 - 50 mA	1 - 10 mA	
Contact Resistance	≤ 100 mΩ		
Insulation Resistance	(100 V): 1G Ω (between terminals)		
Bounce Time	1 ms max.		

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

Process

Soldering	Lead free reflow soldering process in accordance with IEC 61760-1	
Packaging	Switches are delivered on continuous tape, in reels of 2,500 pieces	

Description

The KSR series subminiature tact switch for SMT has 4 actuation forces and is an N.O. (normally open) and N.C. (normally closed) switch. With detect type available, The KSR series is ideal for industrial, medical and automotive applications that need emergency stop functionality should accidents occur.

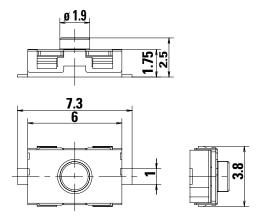
Features & Benefits

- 4 actuation forces
- G terminations
- N.O. and N.C.
- Detect type available
- Rubber actuator
- RoHS compliant and compatible

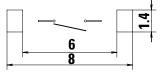
Applications

- Transportation
- Medical equipment
- Industrial electronics
- Smart meters

Dimensions (mm)



Recommended PCB layout





KSR Series Sub-Miniature Tactile Switch for SMT 6.0 x 3.8 mm, with 2.5 mm Height Soft Actuator



Mechanical Characteristics

Operating Force Newtons (grams)	Operating Life (operations)	Travel (mm)	
1.5 < 1.85 (185) < 2.2	100,000	0.25 ± 0.15	
1.9 < 2.25 (225) < 2.6		0.3 ± 0.15	
2.25 < 3.00 (300) < 3.75		0.35 ± 0.15	
3.4 < 4.50 (450) < 5.6		0.5 ± 0.15	
1.5 < 2.25 (225) < 3	20.000	0.2 . 0.15	
1.5 < 2 (200) < 2.5	30,000	0.3 ± 0.15	
	Newtons (grams) 1.5 < 1.85 (185) < 2.2 1.9 < 2.25 (225) < 2.6 2.25 < 3.00 (300) < 3.75 3.4 < 4.50 (450) < 5.6 1.5 < 2.25 (225) < 3	Newtons (grams) (operations) 1.5 < 1.85 (185) < 2.2 1.9 < 2.25 (225) < 2.6 2.25 < 3.00 (300) < 3.75 3.4 < 4.50 (450) < 5.6 1.5 < 2.25 (225) < 3 30.000	

Note: Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center. Detect switch versions are available. Please see Detect chapter KSR2D/M series.

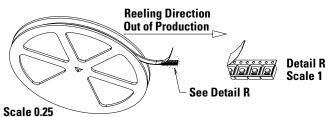


KSR Series
Sub-Miniature Tactile Switch for SMT 6.0 x 3.8 mm, with 2.5 mm Height Soft Actuator





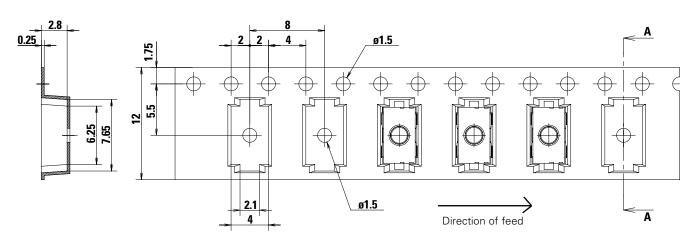
Tape & Reel



Packaging Details

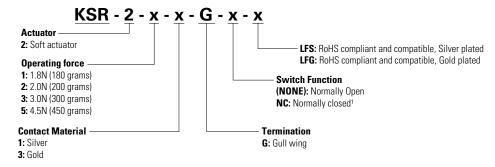
Туре	Tape & reel		
Number of Parts in Packaging	2,500		
Other Information	Tape and reel per EIA 481		
Transport Conditions	According to specification NF H00-060		

Tape & Reel



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.



1. Available on KSR22xG only

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 equipement. Please contact customer service for the contractual specification package.

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



KSR Long Life

200,000 cycles - Gold and Silver Series Subminiature **Tactile Switch for SMT**







Specifications

Function	Momentary action		
Contact Arrangement	Normally Open		
Terminals	Gullwing type for SMT		
Overload	20 Newtons		
Packaging	Switches are delivered on continuous tape, in reels of 2,500 pieces		

Electrical Characteristics

	Silver	Gold	
Maximum Power	1 VA	0.2 VA	
Min. / Max. Voltage	20 m VDC - 32VDC		
Min. / Max. Current	1 - 50 mA	1 - 10 mA	
Contact Resistance	≤ 100 mΩ		
Insulation Resistance	(100 V): 1G Ω (between terminals)		
Bounce Time	1 ms max.		

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

Note: Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center

Description

The KSR series subminiature tact switch for SMT has 4 actuation forces and is an N.O. (normally open) and N.C. (normally closed) switch. With detect type available, KSR is ideal for industrial, medical and automotive applications that need emergency stop functionality should accidents occur.

Features & Benefits

- 4 actuation forces
- G terminations
- N.O.
- Detect type available
- Rubber actuator
- IP50 sealed
- RoHS compliant and compatible

Applications

- Automotive
- Medical equipment

Industrial electronics

Process

Soldering	Compatible lead free reflow
	soldering process

Mechanical Characteristics

Part #	Operating Force (Fa) Newtons (grams)	Operating Life (operations)	Travel (mm)	
	Silver Versions	s		
KSR212G LFS	1.5 < 1.85 (185) < 2.2		0.25 ± 0.15	
KSR222G LFS	1.9 < 2.25 (225) < 2.6	200,000	0.3 ± 0.15	
KSR232G LFS	2.25 < 3.00 (300)< 3.75		0.35 ± 0.15	
KSR252G LFS	3.4 < 4.50 (450) < 5.6		0.5 ± 0.15	
Gold Versions				
KSR214G LFG	1.5 < 1.85 (185) < 2.2		0.25 ± 0.15	
KSR224G LFG	1.9 < 2.25 (225) < 2.6	200,000	0.3 ± 0.15	
KSR234G LFG	2.25 < 3.00 (300)< 3.75		0.35 ± 0.15	
KSR254G LFG	3.4 < 4.50 (450) < 5.6		0.5 ± 0.15	



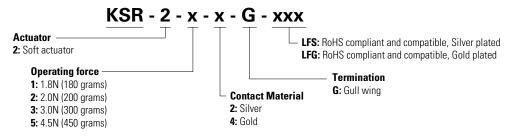
KSR Long Life

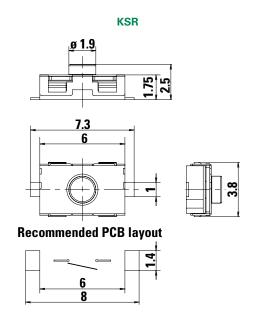
200,000 cycles - Gold and Silver Series Subminiature Tactile Switch for SMT



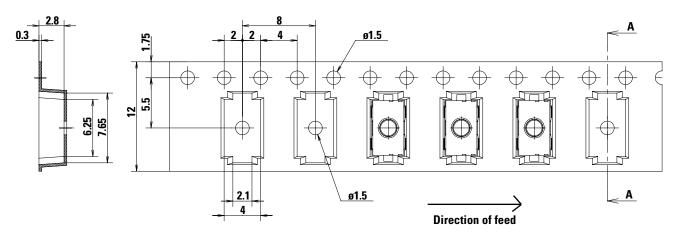
Ordering Number

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Tape & Reel



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