E Littelfuse Cek



Specifications

Function	Momentary
Contact Arrangement	SPST or DPST
Contact Type	NO or NC (NO/NC on request)
Terminals	SMT
Total Travel	1.5 mm
Operating Force	3N Detect; 5N; 6N; 9N; 12N; 4/8N and 6/12N
Sealing	IP40 or IP67
Packaging	Reels of 900 pieces

Electrical & Environmental Characteristics

Switching Power Min./Max.	0.02 W / 3W
Switching Voltage Min./Max.	2 V / 30 V DC
Switching Current Min./Max.	10 mA / 100 mA
Dielectric Strength	> 300 V RMS
Operating Life	> 10 ⁶ operations (detect version) / 2x10 ⁵ operations (versions with tactile effect)
Contact Resistance	Initial < 100m Ω - After test < 250 m Ω
Insulation Resistance	>10 ⁹ Ω
Bounce Time	< 10 ms
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 95°C
Solderability	Lead free soldering compatible

Note:

RoHS compliant and Halogen free

Description

The K12S High Performance SMT is an illuminated keyswitch that provides an excellent tactile feel for the user. It can be IP40 or IP67 sealed, making it ready for use in any off-road, motorcycles, automotive, industrial or medical appliances– and it complies with all RoHS requirements.

The K12S is known for its reliability, is available in DPST or detect versions, and is compatible with an SMT lead-free soldering process.

Features & Benefits

- Harsh environment applications - IP67
- Compatible with SMT lead free soldering process
- Illuminated

Applications

- Motorcycles
- Off-road transportation
- Joysticks and Armrests
- Remote controls

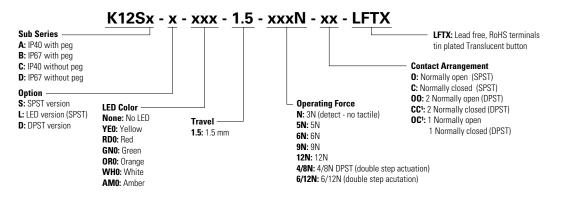
- Excellent tactile feel
- High reliability / long life
- SPST, DPST, Double Stroke and Detect versions available
- RoHS compliant
- Automotive
- Industrial
- Medical



E Littelfuse Cak

Ordering Number

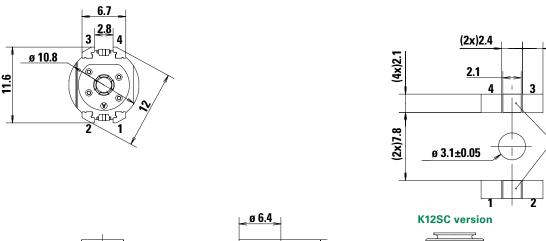
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



Notes:

1. Contact technical support for this configuration

K12SA / K12SC IP40 with peg / IP40 without peg





Without Peg



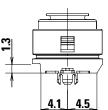
Recommended

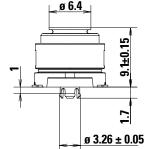
PCB Layout

Prohibited Area

(4X)2.35



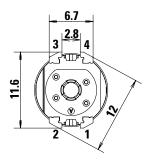






ELittelfuse Cek

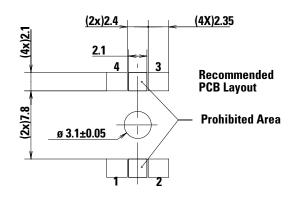
K12SB / K12SD IP67 with peg / IP67 without peg



ø 11.2

4.1 _4.5

1.3







Without Peg

K12SB version





S SPST Version

Single NO



Single NC 4 3

2

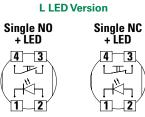
1

ø 6.4_

9.1±0.15

1.7

ø 3.26 ± 0.05



Option

Double NO

エリ

Ϋŋ

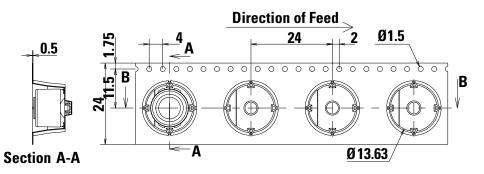


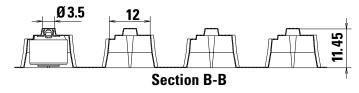
D DPST Version



ELittelfuse **C**eK Switches

Tape and Reel





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E Littelfuse Cak



Specifications

Function	Momentary
Contact Arrangement	SPST (DPST on request)
Contact Type	NO or NC (NO/NC on request)
Terminals	SMT
Total Travel	1.5 mm
Operating Force	3N Detect; 5N; 6N; 9N or 12N
Sealing	IP671
Packaging	Reels of 900 pieces (diameter 550 mm) Reels of 300 pieces (diameter 360 mm)
Note:	

1. High sealing grade (IP67): Only after customer coating operation

Electrical & Environmental Characteristics

Switching Power Min./Max.	0.02 W / 3W
Switching Voltage Min./Max.	2 V / 30 V DC
Switching Current Min./Max.	10 mA / 100 mA
Dielectric Strength	> 300 V RMS
Operating Life	> 10 ⁶ operations (detect version) / 2x10 ⁵ operations (versions with tactile effect)
Contact Resistance	Initial < 100m Ω - After test < 250 m Ω
Insulation Resistance	>10 ⁹ Ω
Bounce Time	< 10 ms
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 95°C
Solderability	Lead free soldering compatible

Note: RoHS compliant and Halogen free

Description

The K12S "Cold White" High Performance SMT is an illuminated keyswitch that provides an excellent tactile feel for the user. It can be IP40 or IP67 sealed, making it ready for use in any industrial, automotive, or medical environment – and it complies with all RoHS requirements. The K12S is known for its reliability, is available in DPST or detect versions, and is compatible with an SMT lead-free soldering process.

Features & Benefits

- Harsh environment applications - IP67 sealed
- Compatible with SMT lead free soldering process
- High Illumination

Applications

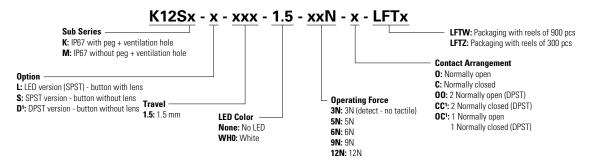
- Motorcycles
- Off-road transportation
- Joysticks and Armrests
- Remote controls

- Excellent tactile feel
- High reliability / long life
- SPST, DPST, Double Stroke and Detect versions available
- RoHS compliant
- Automotive
- Industrial
- Medical



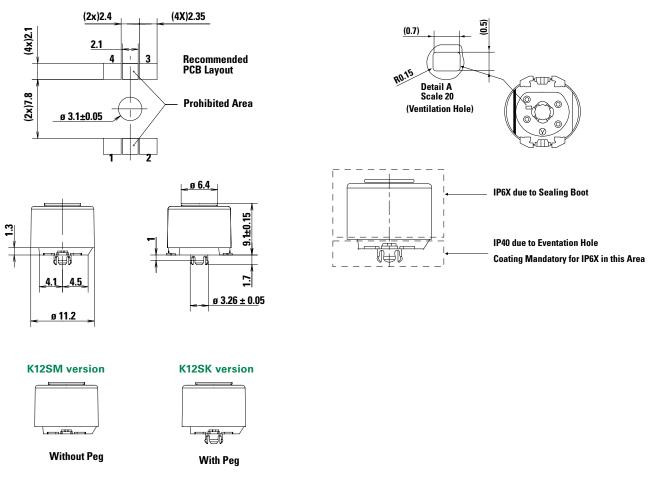
Ordering Number

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Note: 1. Contact Technical support for this configuration

K12SK / K12SM IP67 with Peg / IP67 without Peg







L LED Version			
Single NO + LED	Single NC + LED		

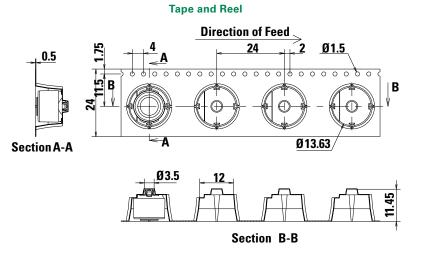
Option

Travel 1.5 1.5 mm

LED Color		
Option Code	LED Color	
WH0	White	

Operating ForceOption CodeOperating Force3N3N (detect - no tactile)5N5N6N6N9N9N12N12N

Contact Arrangement O Normally Open (SPST and LED Versions) C Normally Closed (SPST and LED Versions)



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