

K12S

High Performance SMT Key Switches



Features/Benefits

- Harsh environment applications - IP67
- Compatible with SMT lead free soldering process
- Illuminated
- Excellent tactile feel
- High reliability / long life
- DPST and detect versions available
- RoHS compliant

Typical Applications

- Automotive
- Off-road transportation
- Motorcycles
- Industrial
- Medical
- Network
- Joysticks

Construction:

FUNCTION: Momentary
CONTACT ARRANGEMENT: SPST or DPST
CONTACT TYPE: NO or NC
TERMINALS: SMT

Mechanical

TOTAL TRAVEL: 1,5 mm
OPERATING FORCE: 3N; 5N; 6N; 9N 4/8 N; 6/12 N
SEALING: IP40 or IP67

Packaging

Reels of 900 pieces

Electrical

SWITCHING POWER MIN./MAX.: 0.02mW/3 W DC
SWITCHING VOLTAGE MIN./MAX.: 2 V / 30 V DC
SWITCHING CURRENT MIN./MAX.: 10 mA /100 mA DC
DIELECTRIC STRENGTH: > 300 V RMS
OPERATING LIFE: > 10⁶ operations (F<5N) / 10⁵ operations (F≥5N)
CONTACT RESISTANCE: Initial < 100mΩ - After test < 250mΩ
INSULATION RESISTANCE: >10⁹Ω
BOUNCE TIME: < 10 ms

Environmental

OPERATING TEMPERATURE: -40°C to 85°C.
STORAGE TEMPERATURE: -40°C to 95°C.
RoHS compliant and Halogen free.

Process

SOLDERABILITY: Lead free soldering compatible.

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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Key Switches

K 1 2 S 1 . 5 N L F T X

Sub-Series

- A IP40 with peg
- B IP67 with peg
- C IP40 without peg
- D IP67 without peg

Option

- S SPST version
- L LED version (SPST)
- D DPST version

LED Color

- NONE No LED
- YE0 Yellow
- RD0 Red
- GN0 Green
- OR0 Orange
- WH0 White
- AM0 Amber

Travel

- 1.5 1.5 mm

Operating Force

- 3N 3 N
- 5N 5 N
- 6N 6 N
- 9N 9 N
- 4/8N 4/8 N (double step actuation)
- 6/12N 6/12 N (double step actuation)

Contact Arrangement

- O Normally open (SPST)
- C Normally closed (SPST)
- OO 2 Normally open (DPST)
- CC 2 Normally closed (DPST)
- OC 1 Normally open
1 Normally closed (DPST)

LFTX

Lead free, RoHS
terminals tin plated
Translucent button

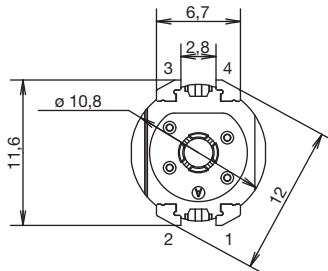
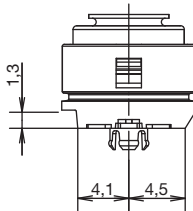
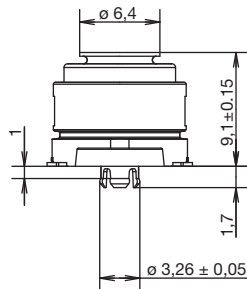
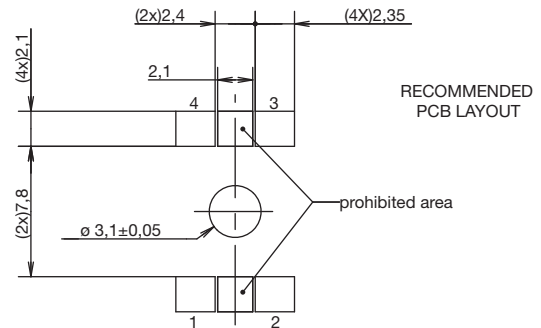
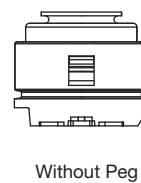


Dimensions are shown: mm
Specifications and dimensions subject to change

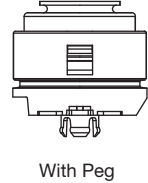
K12S

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K12SA/K12SC IP40 with peg / IP40 without peg

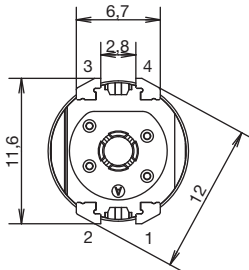
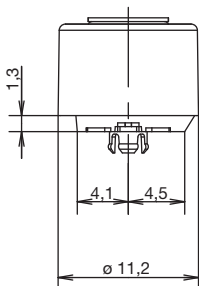
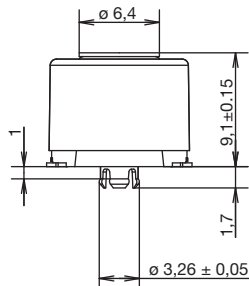
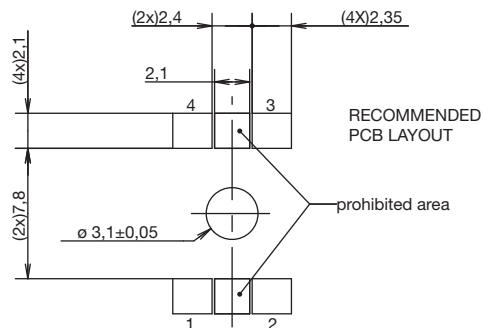
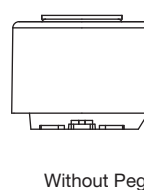


Without Peg

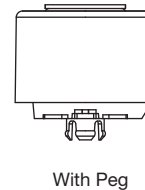


With Peg

K12SB / K12SD IP67 with peg / IP67 without peg



Without Peg



With Peg



First Angle
Projection

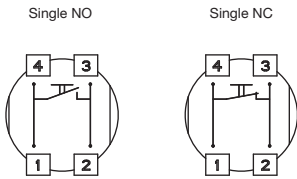
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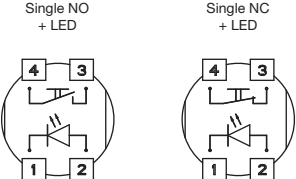
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OPTION

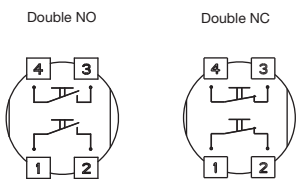
S SPST version



L LED version



D DPST version



LED COLOR

OPTION CODE	LED COLOR
	No LED
YE0	Yellow
RD0	Red
GN0	Green
OR0	Orange
WH0	White
AM0	Amber

TRAVEL

1.5 1.5 mm

OPERATING FORCE

OPTION CODE	OPERATING FORCE
3N	3N
5N	5N
6N	6N
9N	9N
4/8N	4/8N (double step actuation)
6/12N	6/12N (double step actuation)

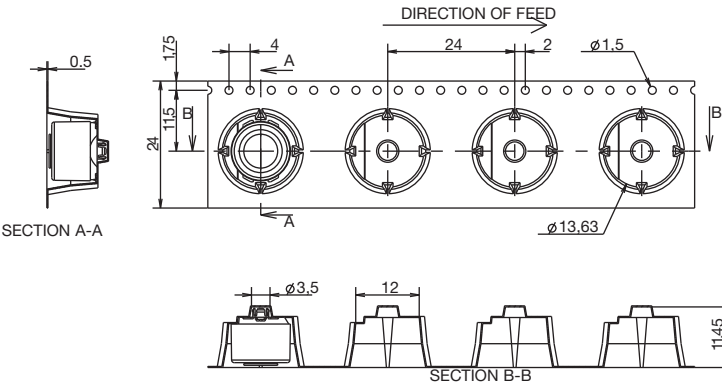
CONTACT ARRANGEMENT

- O** Normally open (SPST and LED versions)
C Normally closed (SPST and LED versions)
OO 2 Normally open (DPST version)

- CC** 2 Normally closed (DPST version)
OC⁽¹⁾ 1 Normally open/ 1 Normally closed (DPST)

⁽¹⁾ Please contact Technical support for this configuration using the "Ask a Specialist" option on the K12S product web page.

TAPE AND REEL



First Angle
Projection

Dimensions are shown: mm
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Key Switches