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

Construction:

FUNCTION: Momentary

CONTACT ARRANGEMENT: SPST or DPST

CONTACT TYPE: NO or NC

TERMINALS: SMT

Mechanical

TOTAL TRAVEL: 1,5 mm

OPERATING FORCE: 3N; 3,5N; 5N; 6N; 9N 4/8 N; 6/12 N

SEALING: IP40 or IP67

Packaging

Reels of 900 pieces

Electrical

SWITCHING POWER MIN./MAX.: 0.02 mW/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 (detect version) / 2x105 operations

(versions with tactile effect)

CONTACT RESISTANCE: Initial < $100m\Omega$ - After test < $250m\Omega$

INSULATION RESISTANCE: >10 $^{\rm o}\,\Omega$

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

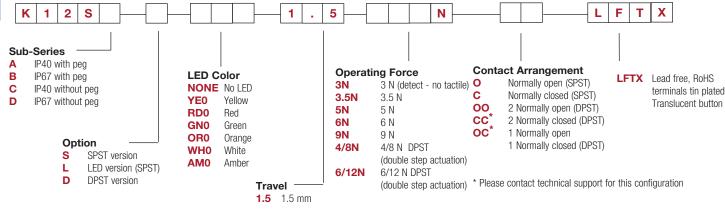
SOLDERABILITY: Lead free soldering compatible.

How To Order

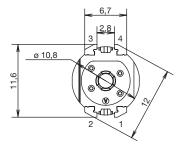
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

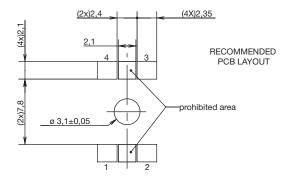


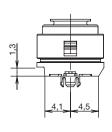


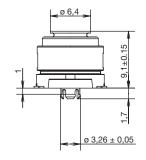








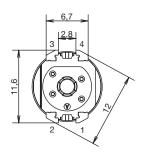


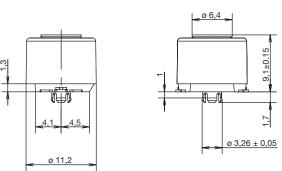


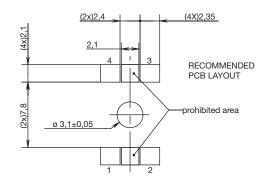




K12SB / K12SD IP67 with peg / IP67 without peg











With Peg



Dimensions are shown: mm



First Angle Projection

High Performance SMT Key Switches

OPTION









Single NC + LED



D DPST version

Double NO





Double NC

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 (detect - no tactile)
3.5N	3.5N
5N	5N
6N	6N
9N	9N
4/8N	4/8N (double step actuation)
6/12N	6/12N (double step actuation)

CONTACT ARRANGEMENT

Normally open (SPST and LED versions)

Normally closed (SPST and LED versions)

2 Normally open (DPST version)

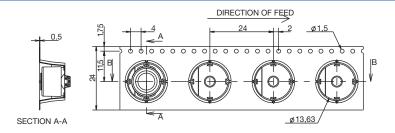
CC*

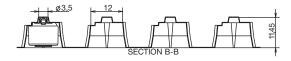
2 Normally closed (DPST version)

OC* 1 Normally open/ 1 Normally closed (DPST)

* Please contact technical support for this configuration

TAPE AND REEL







Dimensions are shown: mm Specifications and dimensions subject to change





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