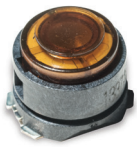
K12S
High Performance SMT Key Switches





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*
- *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.: 0.02mW/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: > 10^6 operations (detect version) / $2x10^5$ operations (versions with tactile effect)
CONTACT RESISTANCE: Initial < 100mΩ - After test < 250mΩ
INSULATION RESISTANCE: $>10^9$ Ω
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.

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

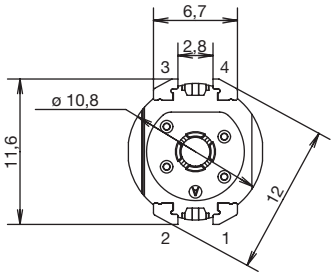
Operating Force
- **3N** 3 N (detect - no tactile)
- **3.5N** 3.5 N
- **5N** 5 N
- **6N** 6 N
- **9N** 9 N
- **4/8N** 4/8 N DPST (double step actuation)
- **6/12N** 6/12 N DPST (double step actuation)

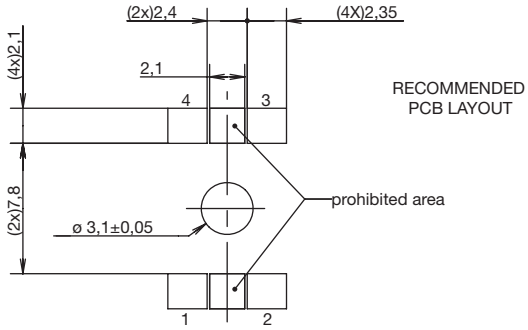
Contact Arrangement
- **O** Normally open (SPST)
- **C** Normally closed (SPST)
- **OO** 2 Normally open (DPST)
- **CC*** 2 Normally closed (DPST)
- **OC*** 1 Normally open 1 Normally closed (DPST)

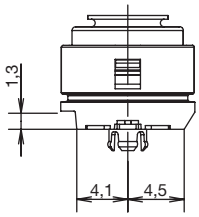
* Please contact technical support for this configuration

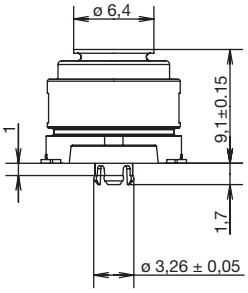
- **LFTX** Lead free, RoHS terminals tin plated Translucent button

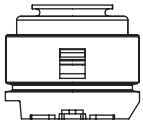
K12SA/K12SC IP40 with peg / IP40 without peg



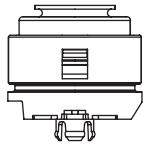






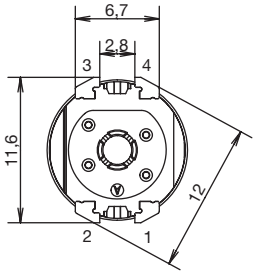


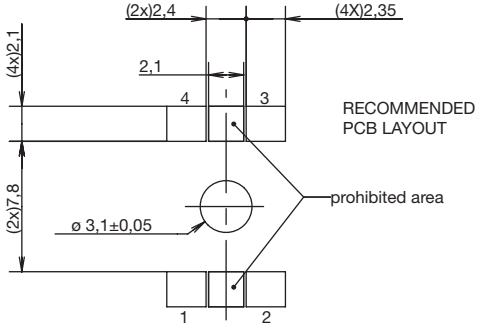
Without Peg

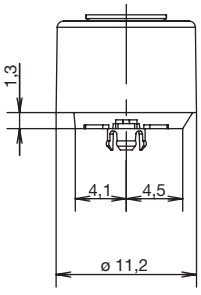


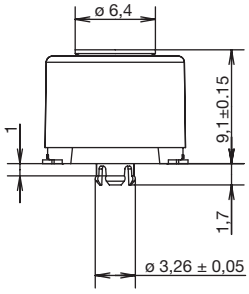
With Peg

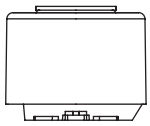
K12SB / K12SD IP67 with peg / IP67 without peg



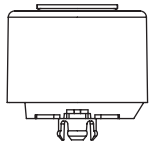








Without Peg



With Peg

First Angle Projection

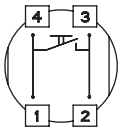
Dimensions are shown: mm
Specifications and dimensions subject to change

K12S
High Performance SMT Key Switches

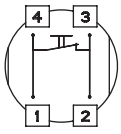
OPTION

S SPST version

Single NO

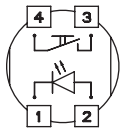


Single NC

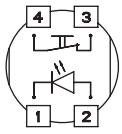


L LED version

Single NO + LED

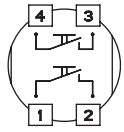


Single NC + LED

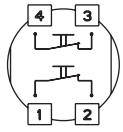


D DPST version

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

O Normally open (SPST and LED versions)

C Normally closed (SPST and LED versions)

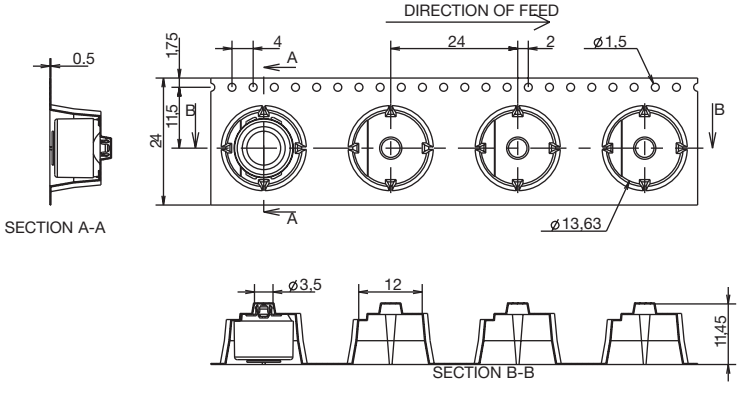
OO 2 Normally open (DPST version)

CC* 2 Normally closed (DPST version)

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

* Please contact technical support for this configuration

TAPE AND REEL



First Angle Projection

Dimensions are shown: mm

Specifications and dimensions subject to change

Unikeyic Electronics

Global Electronic Components Distributor

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C&K:

7107SDW1BE C115366-8935C T108SHZBE E112SD1CBE ET03J1AVBE2 MA00S3NCQD PVA2EEH41.7NSNAV2 Y33R43115FPLFT 7101J1V6BE2 7101MPCWZQE A40305RNCQ C115366-8897 RS014R05A1PA RTAP3EW12M25NP RTAP41S10W25NS MA04L2NZQD REL BAR F5X12.5 NICKEL PLTD 340102902B 37PFR115 7105J61ZQE22 MA04S1NCGF TP12SH8AVBE 7101J3ZBE2 E101J1AV3QE2 PVA1EEH43.5NV2 RS187R05D4DSMTRT2 7203SDZQI MA10L1NZQF R10007RR03Q T101MH9AVGE T103SHABE