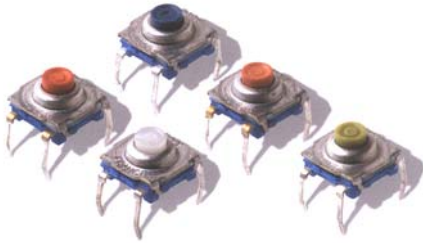


## KSA Tact Switches



### KSA

Miniature tact switch, single pole, single throw, normally open, designed for automatic or manual insertion.

#### Main features:

- Positive tactile feedback
- Travel 0.3 mm (0.012) <sup>-0.04</sup> typical
- 5.08 × 7.62 mm (0.200 × 0.300) footprint
- Available with cambered terminals to ensure self-retention on the printed circuit board in manual insertion, or with straight terminals for use in automatic insertion machines
- Minimum center to center spacing of 7.62 × 10.16 mm (0.300 × 0.400)
- Sealed against flux soldering
- Can be delivered in packaging tubes of 65 pieces for automatic insertion or in a box of 500 pieces for manual insertion (250 for KSL-KSLV-KSAV)
- Optional: ground terminal
- KSA can be used in low level applications, with 5 Volts – 10 µA or 20 mV – 1 mA in TTL or CMOS applications
- Buttons for KSA see following pages.

### KSL

KSA with long actuator.  
Height above PC board 9.9 mm ± 0.3 (0.390 ± 0.012).

### KSA 3N (300 grams)

(Blue actuator)

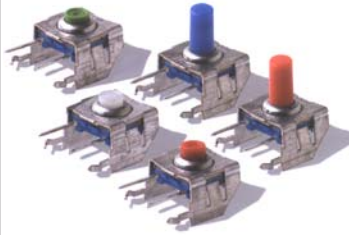
The KSA 3N (300 grams) is a version with higher actuation force 3N (300 grams) ± 25% instead of 1.3N (130 grams) ± 25%. This new version is more suited to applications where tactile feedback is necessary. It can be used when the button, or actuation mechanism absorbs a part of the actuation force, with, for example, hinge buttons. This version shows a large difference between the actuation force and the return force, giving a good tactile feedback.

### KSA 5N (500 grams)

(Yellow actuator)

This version with a higher actuation force of 5N (500 grams) gives a very good tactile feedback. Typical applications are in automotive and aircraft industries.

## KSAV Slide-Actuated Tact Switch



### KSA (1 Million operations)

(Green actuator)

In this version, a special bronze click washer is used. The KSA 1 Million operations is particularly adapted for long operating life requirements such as telephone, data processing, and so on.

### KSA high temperature

(Red actuator)

The KSA high temperature has been designed for use under wide temperature changes (-40°C to +125°C) or very severe climatic conditions. In this version contacts are gold plated and the operating life is 1 million operations.

**Applications:** heating control systems, household appliances, microwave ovens, automotive.

### KSA high sealed

The KSA totally sealed version withstands soldering process with organic flux, washing and thermal shock, see diagram EIA – RS-448.

### KSAV Right angle

- The KSAV can be inserted vertically and used as part of a front panel when the PCB is perpendicular to this front panel
- The KSAV is made up of a special metallic frame placed directly on a standard KSA
- KSAV pinning is compatible with international grid 1.27 mm (0.050)
- The KSAV version is delivered with straight terminals. The pins of the frame are profiled to ensure self-retention on the PC board and can be used as ground terminals
- All versions shown in this catalog are available in vertical form (except KSB and KSF)
- Applications: cars, radios, TVs and front panel instruments

## KSA MKII Tact Switches



### KSA

The KSA MKII benefits from the latest developments in tact switches. Our know how has allowed us to enhance the KSA features.

#### Main features:

- The sealing of the KSA MKII has been improved, thanks to a modification of the crimping technique, and to a double overmolding of the terminals. These improvements result in the highest tact switch sealing performance in the market.
- The processability of the MKII has also been improved. The housing plastic material now common to the KSC SMT and the MKII can withstand higher soldering temperature.
- The MKII mechanical and electrical features stay the same as the standard KSA.
- The MKII uses the same PCB layout as the standard version and so it is full form fit and function to the standard KSA.
- The KSA MKII is available in the following versions: KSA, KSF, KSL, KSI. Please refer to our attached cross reference table or consult us for options availability.
- The KSA MKII are available either with silver or gold plated contacts.
- Please note that the snap-on keycaps, style K01 and K02 cannot be used on the KSA MKII, and that the snap-on keycap K10 cannot be used on the KSF MKII.
- The KSB, KSJ and the KSAV vertical switches are not available in the MKII style.