П

Sealed Tact Switch



Features/Benefits

- Designed for automatic or manual insertion
- Cambered terminals to ensure self retention
- Top or side actuated
- Large choice of caps
- RoHS compliant and compatible

Typical Applications

- Automotive
- Industrial
- Telecommunication net-

Specification

CONTACT ARRANGEMENT: SPST, N.O. DOUBLE OVERMOLDING ON TERMINAL

SEALING: IP60

TERMINALS: PC pins, ground pin optional

Mechanical

| Туре | Actuation force N | Operating life (operations) | Travel to make |
|----------|----------------------|-----------------------------|----------------|
| KSA0M211 | 1,4 ± 0,4 | 100,000 | 0.5 ± 0.2 |
| KSA0M311 | $1,4 \pm 0,4$ | 1,000,000 | 0.5 ± 0.2 |
| KSA0M411 | 3 ± 0,75 | 100,000 | 0.6 ± 0.2 |
| KSA0M511 | 5 ± 1,5 | 100,000 | 0.7 ± 0.2 |
| KSA0M911 | 3 ± 0.75 | 500,000 | 0.6 ± 0.2 |
| KSL0M211 | $1,4 \pm 0,4$ | 100,000 | 0.5 ± 0.2 |
| KSL0M311 | 1,4 ± 0,4 | 1,000,000 | 0.5 ± 0.2 |
| KSL0M411 | 3 ± 0,75 | 100,000 | 0.6 ± 0.2 |
| KSL0M511 | 5 ± 1,5 | 100,000 | 0.7 ± 0.2 |

NOTE: Other versions in terms of force, termination length and corrosion protection available. Please contact your sales representative.

This data sheet does not provide enough information for applications which require a certain level of quality or safety such as automotive, medical systems, safety equipment. Please contact your sales representative to get contractual specification package.

| Electrical | Silver | Gold |
|------------------|--------|--------|
| MAXIMUM POWER: | 1 VA | 0.2 VA |
| MAXIMUM VOLTAGE: | 32 VDC | 32 VDC |
| MINIMUM VOLTAGE: | 20 mV | 20 mV |
| MAXIMUM CURRENT: | 50 mA | 10 mA |
| MINIMUM CURRENT: | 1 mA | 1 mA |

DIFLECTRIC STRENGTH: 250 Vrms CONTACT RESISTANCE: < 100m Ω INSULATION RESISTANCE (100 V): ≥ 109 Ω

BOUNCE TIME: ≤ 1 ms

Environmental Silver Gold **OPERATING TEMPERATURE:** -40°C to 85°C -40°C to 125°C STORAGE TEMPERATURE: -40°C to 85°C -55°C to 125°C

Process

Wave soldering compatible with lead free soldering profile.

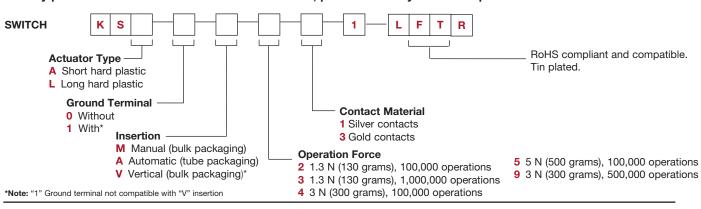
Packaging

Can be delivered in tubes of 65 pieces for automatic insertion or in boxes of 500 pieces for manual insertion (250 pieces for KSL, KSLV, KSAV).

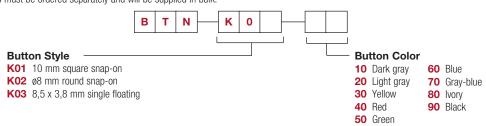
How To Order

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.

However, please note that all the combinations of these options are not feasible. For any part number different from those listed above, please consult your local representative.



BUTTONS Buttons must be ordered separately and will be supplied in bulk.





Dimensions are shown: mm Specifications and dimensions subject to change

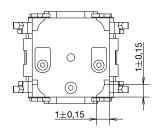
ACTUATOR TYPE ■■■

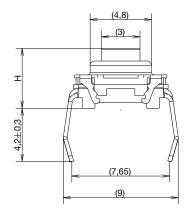


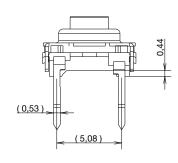
KSA & KSL







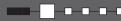




| | 7,4 |
|-----|-----|
| 7,3 | |

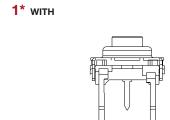
| Туре | H mm | inch |
|------|-------------|--------|
| KSA | 4,7±0,2 | (.185) |
| KSL | $9,9\pm0,2$ | (.390) |

GROUND TERMINAL



0 without





*Not compatible with "V" insertion



First Angle Projection

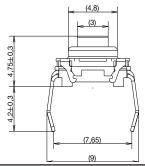
Dimensions are shown: mm

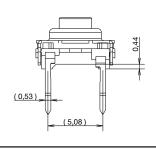


Specifications and dimensions subject to change

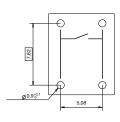
INSERTION ---

M MANUAL (BULK PACKAGING)

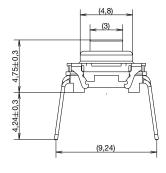


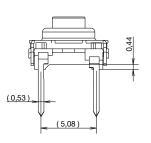


PCB LAYOUT

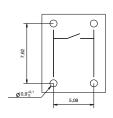


A AUTOMATIC (TUBE PACKAGING, 65 PIECES PER TUBE)

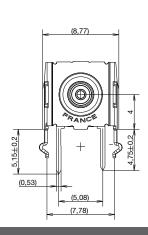


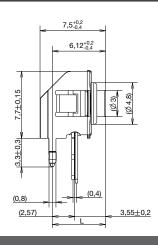


PCB LAYOUT

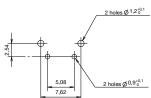


V VERTICAL





PCB LAYOUT



DIMENSION L

| Туре | L mm | inch |
|-------|------|------|
| KSA0V | 5,8 | .228 |
| KSL0V | 11,1 | .437 |

OPERATING FORCE

| OPTION CODE | OPERATING FORCE | |
|---|---|--|
| 2 | 1.3 N (130 grams) 100,000 operations | |
| 3 | 1.3 N (130 grams) 1,000,000 operations | |
| 4 | 3.0 N (300 grams) 100,000 operations | |
| 5.0 N (500 grams) 100,000 operations | | |
| 9 | 3.0 N (300 grams) 500,000 operations | |



First Angle Projection

Dimensions are shown: mm Specifications and dimensions subject to change



CONTACT MATERIAL

| OPTION CODE | CONTACT MATERIAL | |
|----------------|------------------|--|
| 1 | Silver contacts | |
| 3 | Gold contacts | |

SEALING ----

| OPTION CODE | SEALING | |
|----------------|--------------------|--|
| 1 | Sealing level IP60 | |

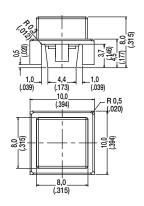
BUTTONS

Buttons must be ordered separately and will be supplied in bulk.

| BUTTON TYPE | KSA | KSL | KSAV | KSLV |
|----------------|-----|-----|------|------|
| K01 | Х | | | |
| K02 | Х | | | |
| K03 | Х | Х | Х | Х |

K01



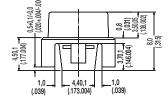




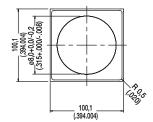
Dimensions are shown: mm Specifications and dimensions subject to change



K02

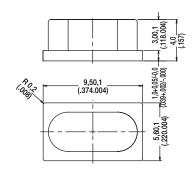






K03









Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

KSA0M411LFTR KSL1M511LFTR KSA0A211LFTR KSA0M211LFTR KSL0M211LFTR KSL0V411LFTR KSA0A411LFTR KSA0A431LFTR KSA0A431LFTR KSA0A511LFTR KSA0A931LFTR KSA0M311LFTR KSA0M331LFTR KSL1M211LFTR KSL1M331LFTR KSL1M411LFTR KSL1M431LFTR KSA0V211LFTR KSA0A311LFTR KSL0V311LFTR KSL0V331LFTR KSL0V431LFTR KSL0V431LFTR KSL0V511LFTR KSL0V531LFTR KSL1A211LFTR KSL0M331LFTR KSL0M411LFTR KSL0M431LFTR KSL0M511LFTR KSL0M531LFTR KSL0V211LFTR KSA1M411LFTR KSA1M431LFTR KSA1M511LFTR KSA1M531LFTR KSL0A411LFTR KSA0M311LFTR KSA1A211LFTR KSA1A331LFTR KSA1A511LFTR KSA1M211LFTR KSA1M311LFTR KSA1M331LFTR KSA0V331LFTR KSA0V411LFTR KSA0V431LFTR KSA0V511LFTR KSA0V531LFTR KSA0V911LFTR KSA0M431LFTR KSA0M431LFTR KSA0M531LFTR KSA0M531LFTR KSA0M931LFTR KSA0M931LFTR KSA0M311LFTR KSA0M331LFTR KSA0M311LFTR KSA0M331LFTR KSA0M331LFTR KSA0M331LFTR KSA0M