

KSA & KSL Series 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 networks

Tactile Switches

Specification

CONTACT ARRANGEMENT: SPST, N.O.
 DOUBLE OVERMOLDING ON TERMINAL
 SEALING: IP60
 TERMINALS: PC pins, ground pin optional

Mechanical

| Type | Actuation force N | Operating life (operations) | Travel to make |
|----------|-------------------|-----------------------------|----------------|
| KSA0M211 | 1,4 ± 0,4 | 100,000 | 0,5 ± 0,2 |
| KSA0M311 | 1,4 ± 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 ± 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 |
| KSL0M911 | 3 ± 0,75 | 500,000 | 0,6 ± 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 |
| DIELECTRIC STRENGTH: 250 Vrms | | |
| CONTACT RESISTANCE: ≤ 100m Ω | | |
| INSULATION RESISTANCE (100 V): ≥ 10 ⁹ 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.

SWITCH

Actuator Type

A Short hard plastic

L Long hard plastic

Ground Terminal

0 Without

1 With*

Insertion

M Manual (bulk packaging)

A Automatic (tube packaging)

V Vertical (bulk packaging)*

1

Contact Material

1 Silver contacts

3 Gold contacts

Operation Force

2 1.3 N (130 grams), 100,000 operations

3 1.3 N (130 grams), 1,000,000 operations

4 3 N (300 grams), 100,000 operations

5 5 N (500 grams), 100,000 operations

9 3 N (300 grams), 500,000 operations

RoHS compliant and compatible.
Tin plated.

***Note:** "1" Ground terminal not compatible with "V" insertion

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

Button Style

K01 10 mm square snap-on

K02 ø8 mm round snap-on

K03 8,5 x 3,8 mm single floating

B T N — **K 0** —

Button Color

10 Dark gray **60** Blue

20 Light gray **70** Gray-blue

30 Yellow **80** Ivory

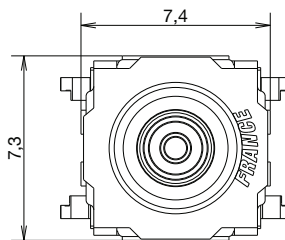
40 Red **90** Black

50 Green

KSA & KSL Series Sealed Tact Switch

ACTUATOR TYPE 

KSA & KSL

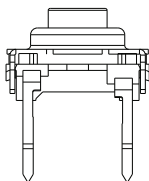


| Type | H mm | inch |
|------|---------|--------|
| KSA | 4,7±0,2 | (.185) |
| KSL | 9,9±0,2 | (.390) |

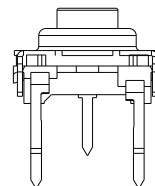
Tactile Switches

GROUND TERMINAL 

0 WITHOUT



1* WITH



*Not compatible with "V" insertion



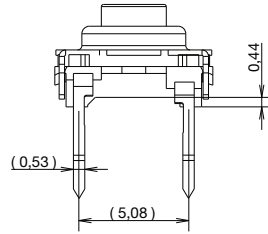
First Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

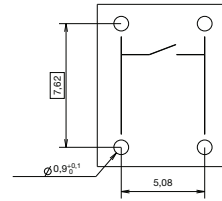
KSA & KSL Series Sealed Tact Switch

INSERTION

M MANUAL (BULK PACKAGING)



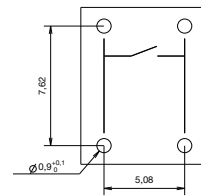
PCB LAYOUT



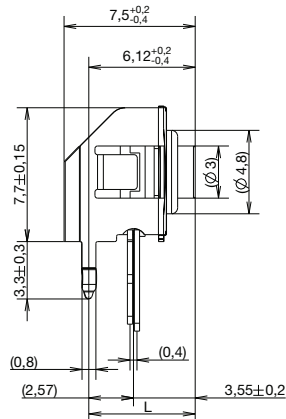
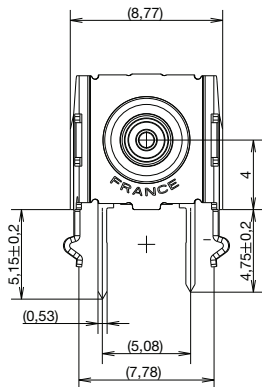
A AUTOMATIC (TUBE PACKAGING, 65 PIECES PER TUBE)



PCB LAYOUT



V VERTICAL



PCB LAYOUT



DIMENSION L

| Type | 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 | 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 | X | | | |
| K02 | X | | | |
| K03 | X | X | X | X |

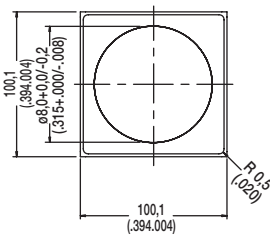
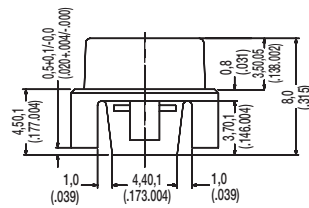
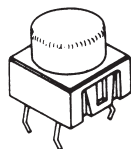
K01



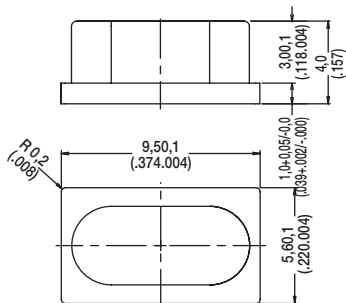
Dimensions are shown: mm
Specifications and dimensions subject to change

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K02



K03





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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