

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

B

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).

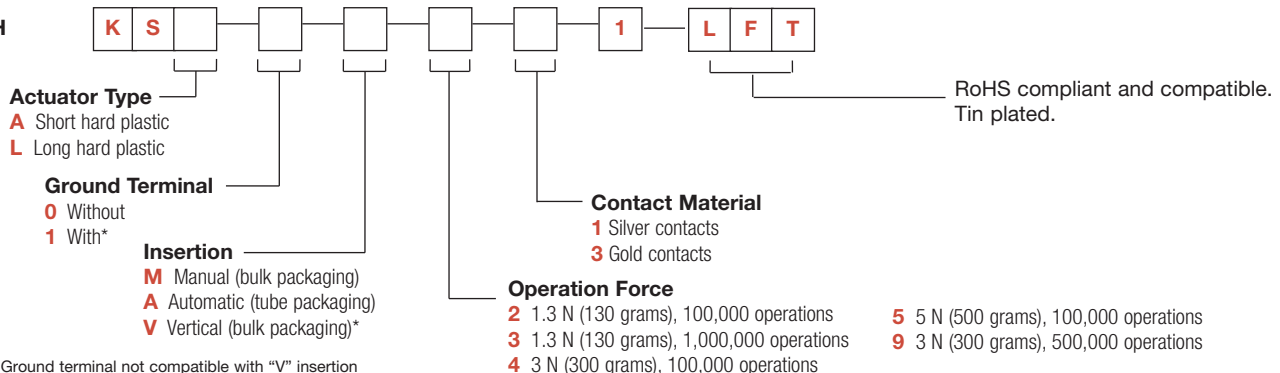
How To Order

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.

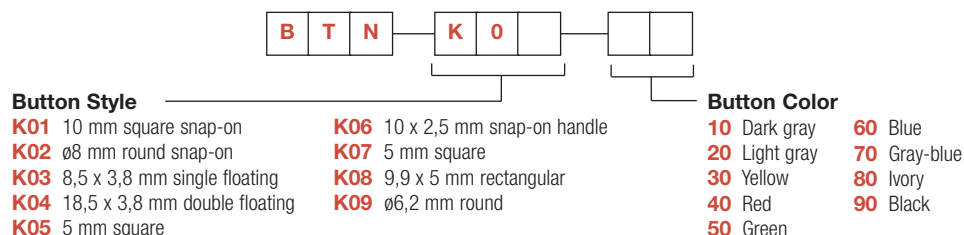
However, please note that all the combinations of these options are not feasible.

For any part number different from those listed above, please consult your local representative.

SWITCH



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



*NOTE: Please note that all buttons are not RoHS compliant. Please check the compliance with your C&K sales representative.

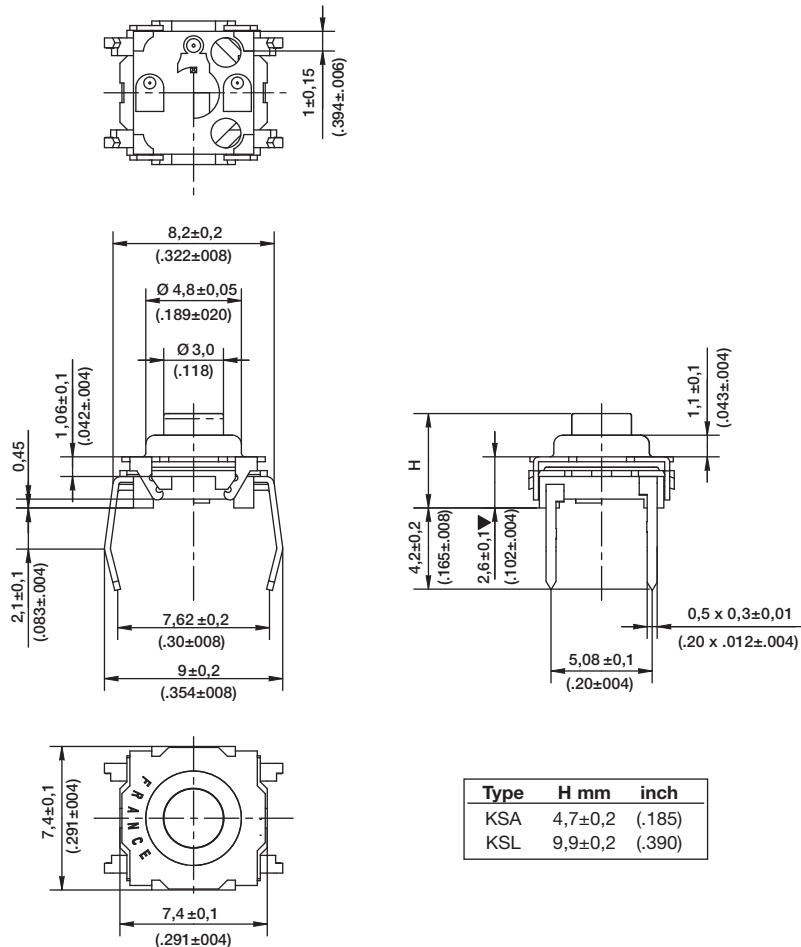


Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

KSA & KSL Series
Sealed Tact Switch

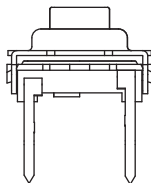
ACTUATOR TYPE 

KSA & KSL

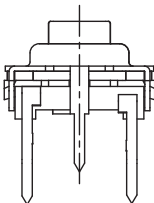


GROUND TERMINAL 

0 WITHOUT



1* WITH



*Not compatible with "V" insertion



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Tactile Switches

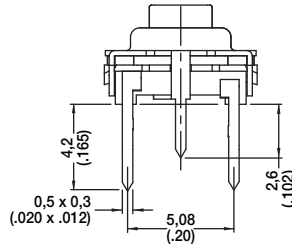
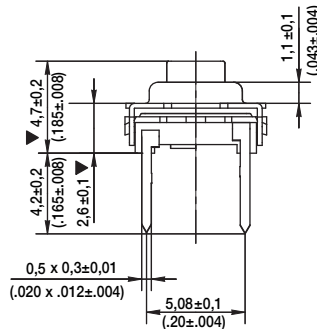


Figure 10: Dimensions for 10-pin D-sub connector. The diagram shows a rectangular connector footprint with four mounting holes at the corners. Dimensions are given in inches and millimeters. The overall width is 0.94 inches (24 mm) and the overall height is 0.90 inches (23 mm). The distance between the centers of the mounting holes is 0.76 inches (19 mm) horizontally and 0.51 inches (13 mm) vertically. A ground terminal is indicated as an optional feature.

Technical drawing of a mechanical part, likely a valve or actuator, showing dimensions in millimeters. The drawing includes a top view and a side view. Key dimensions include:

- Overall width: 8.2 ± 0.2 mm (322 ± 0.08 mm)
- Inner diameter: $\varnothing 4.8 \pm 0.05$ mm (189 ± 0.020 mm)
- Outer diameter: $\varnothing 3-0.06$ mm (189 ± 0.020 mm)
- Height: 1.06 ± 0.1 mm (042 ± 0.004 mm)
- Base width: 9.5 ± 0.3 mm (374 ± 0.012 mm)
- Vertical dimension: 0.45 mm (018 mm)

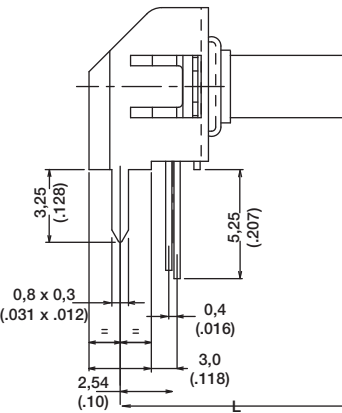
The drawing is labeled "C COURSE" and "RELATIVE".



Technical drawing of a mechanical part, likely a valve or connector, showing a top view and a side view. The top view shows a circular feature with a central hole and a crosshair. The side view shows a rectangular block with a central slot and two side slots. Dimensions are given in millimeters (mm) and inches (in).

Dimensions (mm) and (in):

- Overall width: 9,5 (.374)
- Overall height: 8,0 (.315)
- Distance from top edge to center of circular feature: 4,85 (.191)
- Distance from center of circular feature to center of side slots: 5,08 (.20)
- Distance from center of side slots to center of bottom slot: 7,6 (.300)
- Width of side slots: 0,5 x 0,3 (.020 x .012)



Technical drawing of a mechanical part showing dimensions and tolerances:

- Overall width: 7,62 (.300)
- Distance between outer holes: 5,08 (.200)
- Distance from left edge to first hole center: 2,54 (.100)
- Hole diameter (top right): $\varnothing 1,2$ (.047)
- Hole diameter (bottom middle): $\varnothing 0,9$ (.035)

Type	L mm	inch
KSA0V	5,8	.228
KSLOV	11,1	.437

First Angle Projection

Specifications and dimensions subject to change

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CONTACT MATERIAL



OPTION CODE	CONTACT MATERIAL
1	Silver contacts
3	Gold contacts



B

Tactile Switches

SEALING



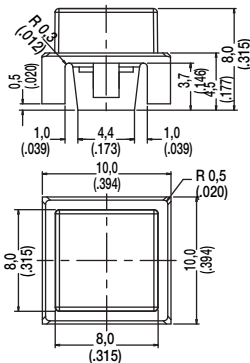
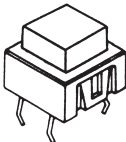
OPTION CODE	SEALING
1	Sealing level IP60

BUTTONS

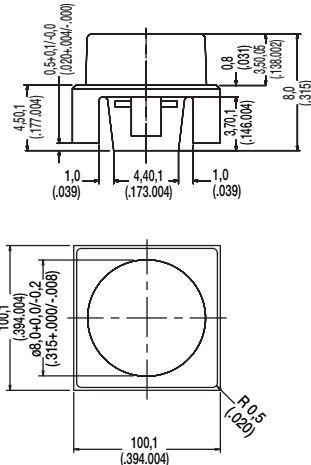
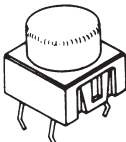
Buttons must be ordered separately and will be supplied in bulk.

BUTTON TYPE	KSA	KSL	KSAV	KSLV
K01	X			
K02	X			
K03	X	X	X	X
K04	X	X	X	X
K05		X		X
K06	X			
K07		X		X
K08		X		X
K09		X		X

K01



K02



First Angle
Projection

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

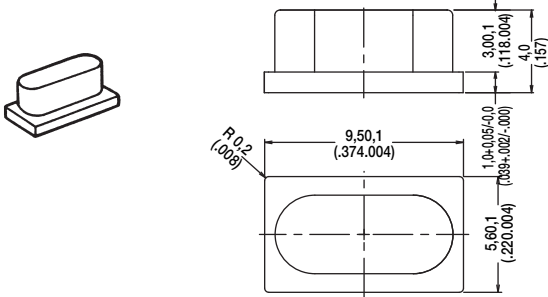


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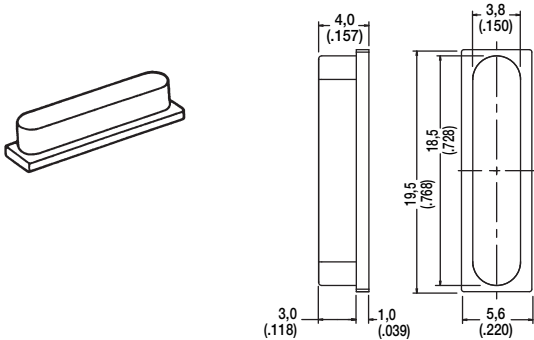
Tactile Switches

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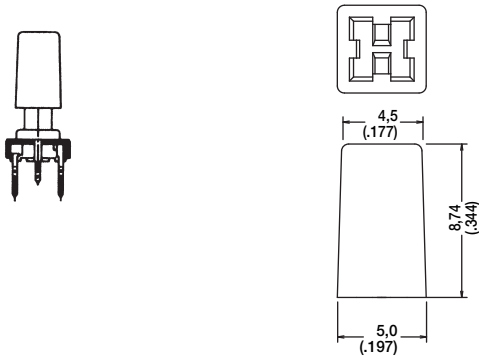
K03



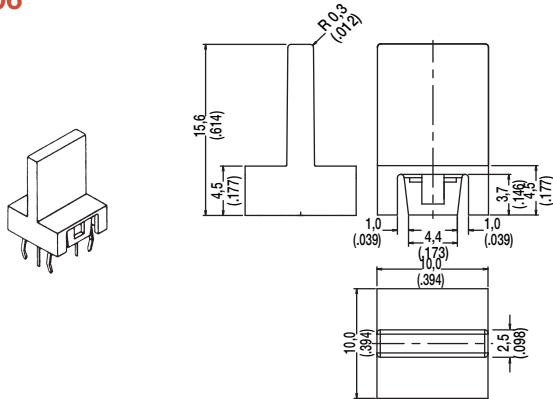
K04



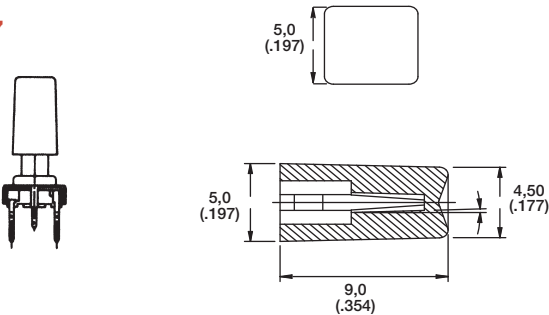
K05



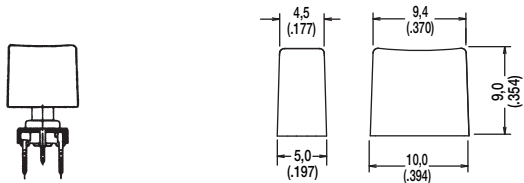
K06



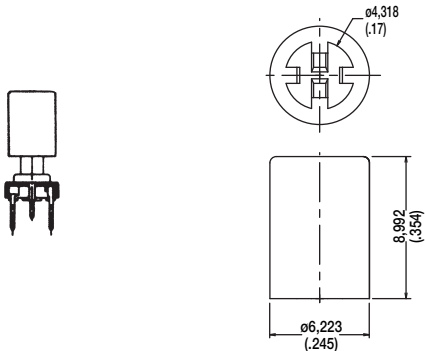
K07



K08



K09



First Angle Projection

Dimensions are shown: mm (inches)

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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