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*

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 K S [ ] [ ] [ ] [ ] [ ] 1 L F T

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)*

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.

B T N K 0 [ ] [ ]

Button Style
K01 10 mm square snap-on
K02 ø8 mm round snap-on
K03 8,5 x 3,8 mm single floating
K04 18,5 x 3,8 mm double floating
K05 5 mm square
K06 10 x 2,5 mm snap-on handle
K07 5 mm square
K08 9,9 x 5 mm rectangular
K09 ø6,2 mm round

Button Color
10 Dark gray
20 Light gray
30 Yellow
40 Red
50 Green
60 Blue
70 Gray-blue
80 Ivory
90 Black

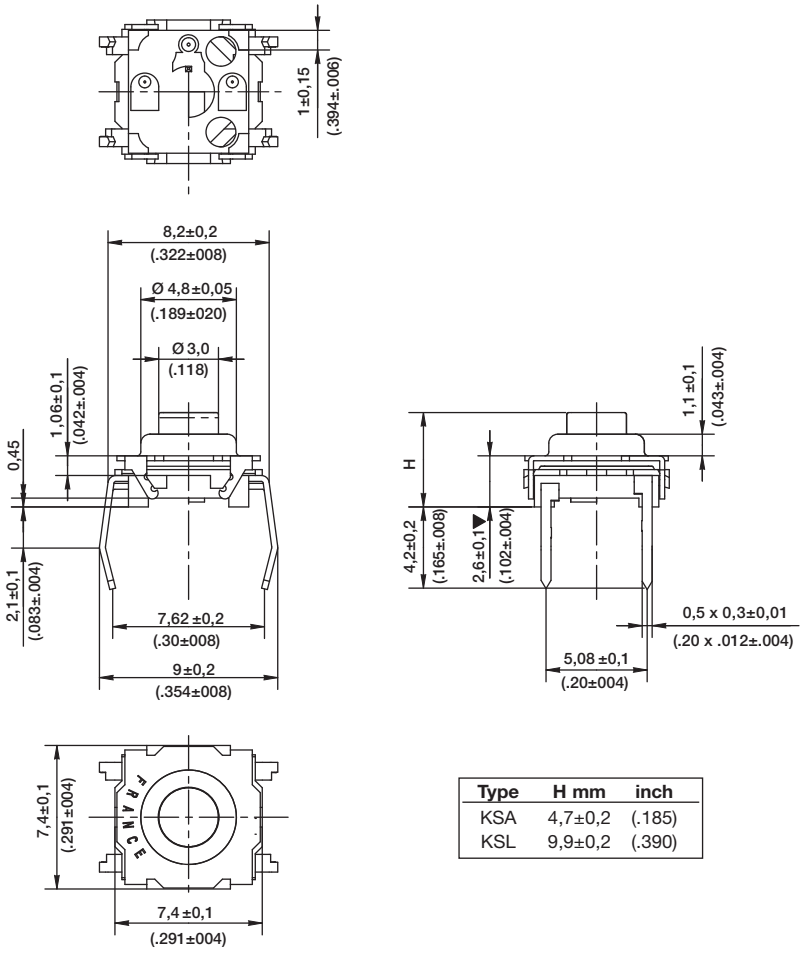
***NOTE**: Please note that all buttons are not RoHS compliant. Please check the compliance with your C&K sales representative.

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

ACTUATOR TYPE

KSA & KSL

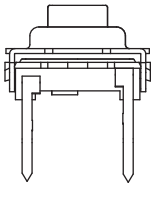




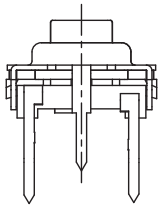
Type	H mm	inch
KSA	4,7±0,2	(.185)
KSL	9,9±0,2	(.390)

GROUND TERMINAL

0 WITHOUT



1* WITH



*Not compatible with "V" insertion

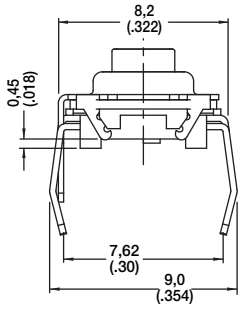
First Angle Projection

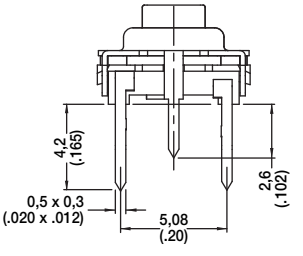
Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

KSA & KSL Series
Sealed Tact Switch

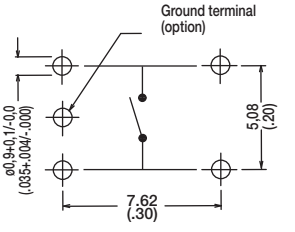
INSERTION

M MANUAL (BULK PACKAGING)

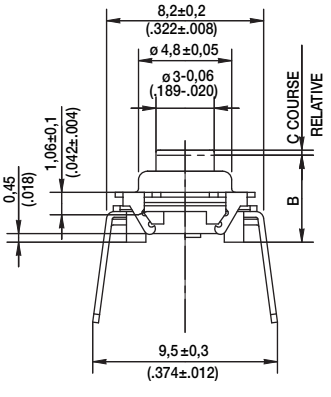


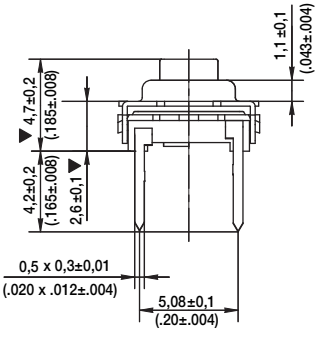


PCB LAYOUT

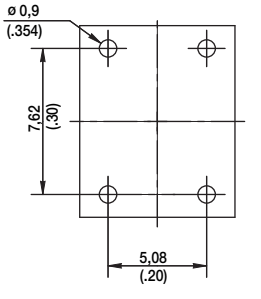


A AUTOMATIC (TUBE PACKAGING, 65 PIECES PER TUBE)

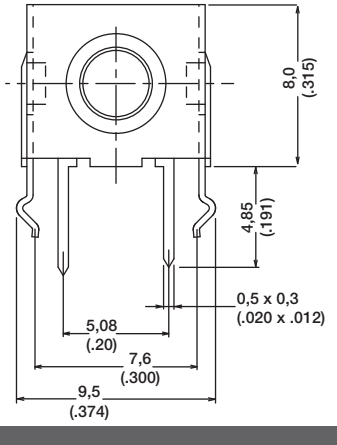


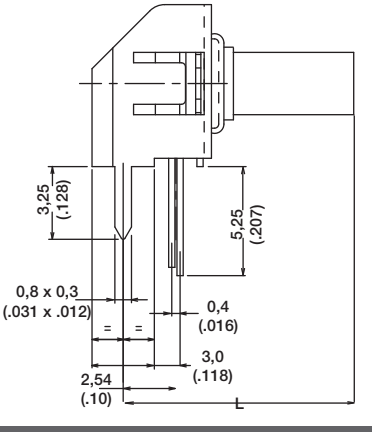


PCB LAYOUT

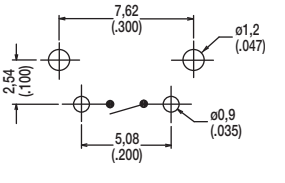


V VERTICAL





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

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CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL
1	Silver contacts
3	Gold contacts

SEALING

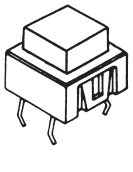
OPTION CODE	SEALING
1	Sealing level IP60

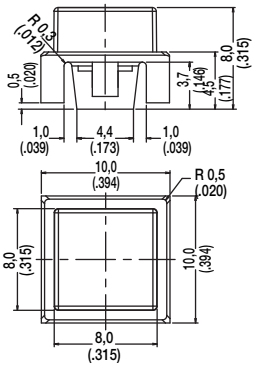
BUTTONS

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

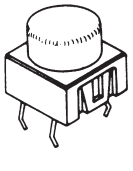
BUTTON TYPE	KSA	KSL	KSAV	KSLV
K01	X			
K02	X			
K03	X	X	X	X
K04	X	X	X	X
K05		X		X
K06	X			
K07		X		X
K08		X		X
K09		X		X

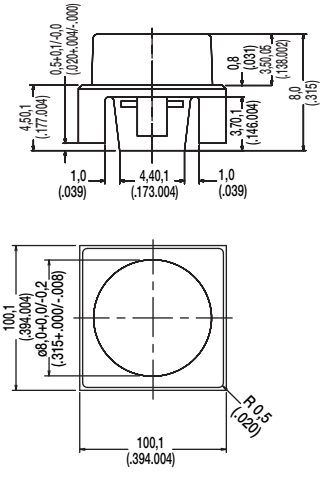
K01





K02



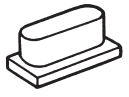


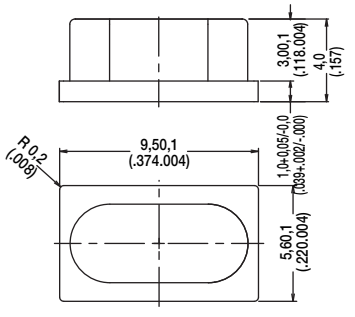
First Angle Projection

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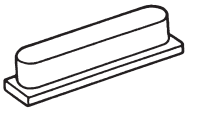
KSA & KSL Series
Sealed Tact Switch

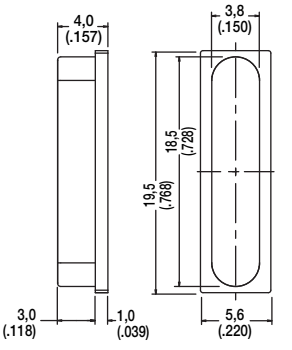
K03





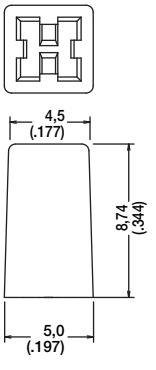
K04



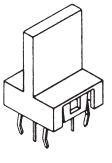


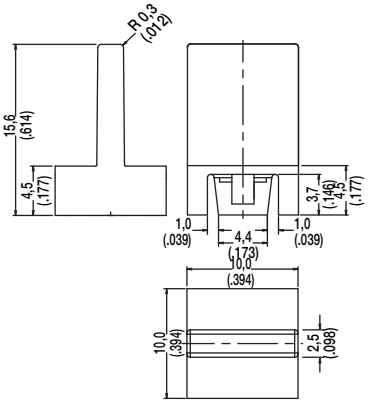
K05



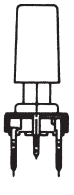


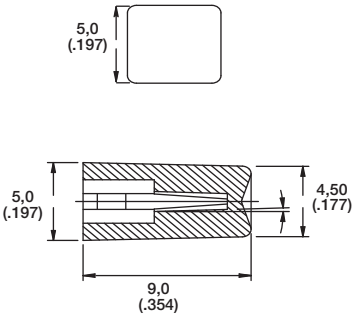
K06



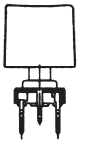


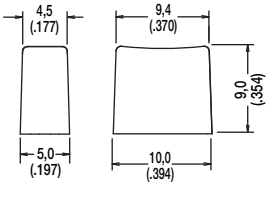
K07





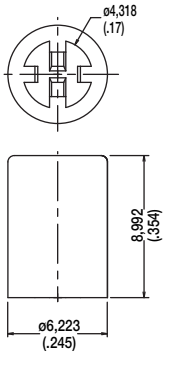
K08





K09





First Angle Projection

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

LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

www.lifeelectronics.ru