

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

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	R
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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

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

RoHS compliant and compatible.
Tin plated.

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

B	T	N	K	0		
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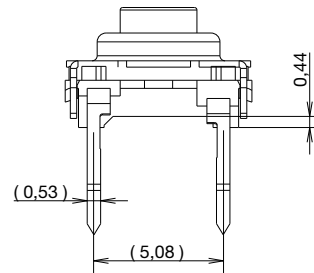
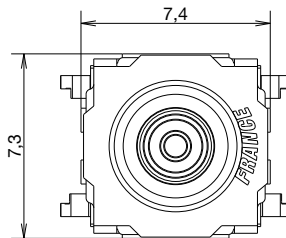
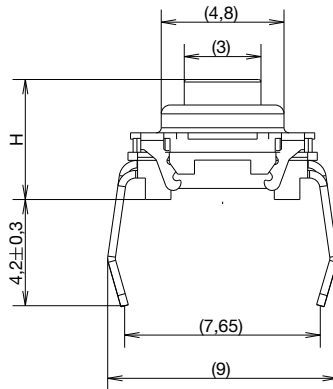
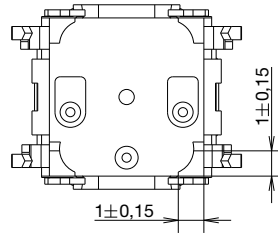
Button Style
K01 10 mm square snap-on
K02 ø8 mm round snap-on
K03 8,5 x 3,8 mm single floating

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

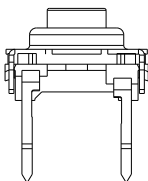
KSA & KSL



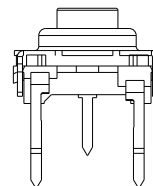
Type	H mm	inch
KSA	4,7±0,2	(.185)
KSL	9,9±0,2	(.390)

GROUND TERMINAL

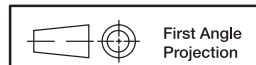
0 WITHOUT



1* WITH



*Not compatible with "V" insertion



First Angle
Projection

Dimensions are shown: mm

Specifications and dimensions subject to change

C&K

15 Oct 21

B-124

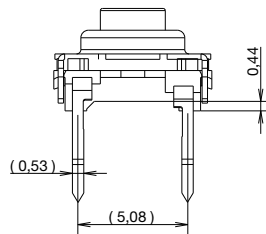
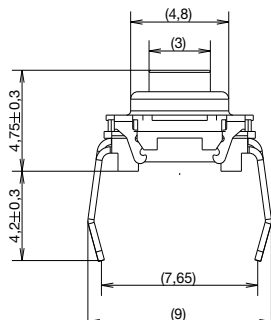
www.ckswitches.com

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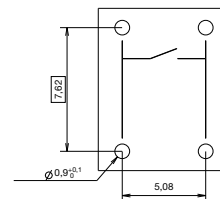
INSERTION



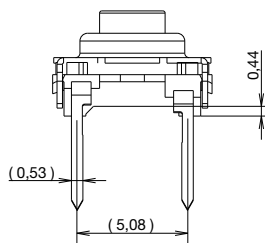
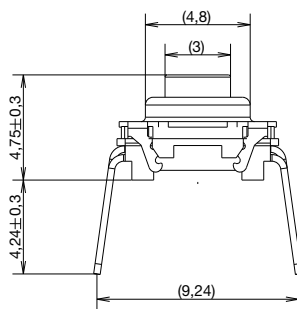
M MANUAL (BULK PACKAGING)



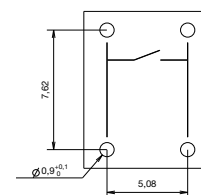
PCB LAYOUT



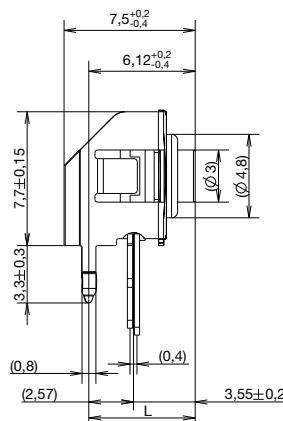
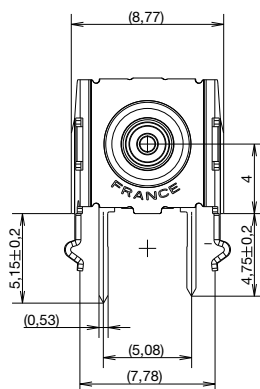
A AUTOMATIC (TUBE PACKAGING, 65 PIECES PER TUBE)



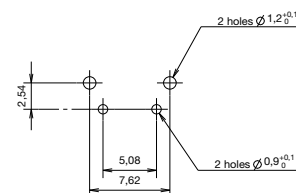
PCB LAYOUT



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

CONTACT MATERIAL



OPTION CODE	CONTACT MATERIAL
1	Silver contacts
3	Gold contacts

SEALING



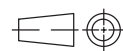
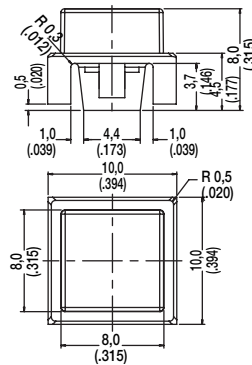
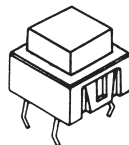
OPTION CODE	SEALING
1	Sealing level IP60

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

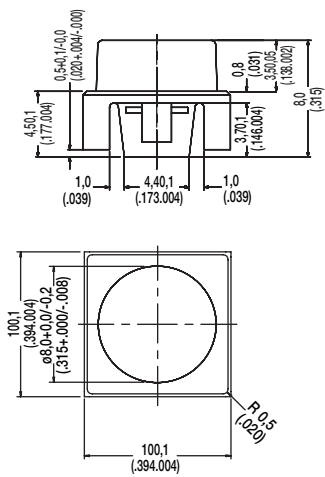
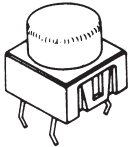


First Angle
Projection

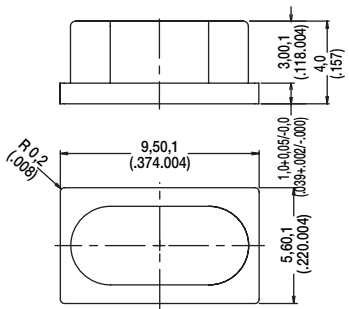


KSA & KSL Series
Sealed Tact Switch

K02



K03



Mouser Electronics

Authorized Distributor

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

C&K Switches:

[KSA0A531LFT](#) [KSL0V511 LFTR](#) [KSL0V531 LFTR](#) [KSL1M431 LFTR](#) [KSL0V331 LFTR](#) [KSA1M511 LFTR](#)
[KSA0V311 LFTR](#) [KSA1A211 LFTR](#) [KSA1M331 LFTR](#) [KSL0M531 LFTR](#) [KSA0V911 LFTR](#) [KSL0M511 LFTR](#)
[KSL0V211 LFTR](#) [KSA0A511 LFTR](#) [KSA0M511 LFTR](#) [KSA1M411 LFTR](#) [KSL0V311 LFTR](#) [KSA0A931 LFTR](#)
[KSA1M531 LFTR](#) [KSA0A411 LFTR](#) [KSA0M911 LFTR](#) [KSA0V331 LFTR](#) [KSA0M311 LFTR](#) [KSA0V431 LFTR](#)
[KSL0M431 LFTR](#) [KSA0M531 LFTR](#) [KSA1M431 LFTR](#) [KSA0M331 LFTR](#) [KSA0V411 LFTR](#) [KSA0A431 LFTR](#)
[KSA0M431 LFTR](#) [KSA0V531 LFTR](#) [KSL0A411 LFTR](#) [KSA0A311 LFTR](#) [KSA0M931 LFTR](#) [KSA1A511 LFTR](#)
[KSA1M311 LFTR](#) [KSL0M311 LFTR](#) [KSL0M411 LFTR](#) [KSL1M331 LFTR](#) [KSA0A331 LFTR](#) [KSA0V211 LFTR](#)
[KSA1A331 LFTR](#) [KSA1M211 LFTR](#) [KSL0M331 LFTR](#) [KSL1A211 LFTR](#) [KSL1M411 LFTR](#) [KSL1M211 LFTR](#)
[KSL0V431 LFTR](#) [KSL1M511 LFTR](#)