

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

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

*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

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.

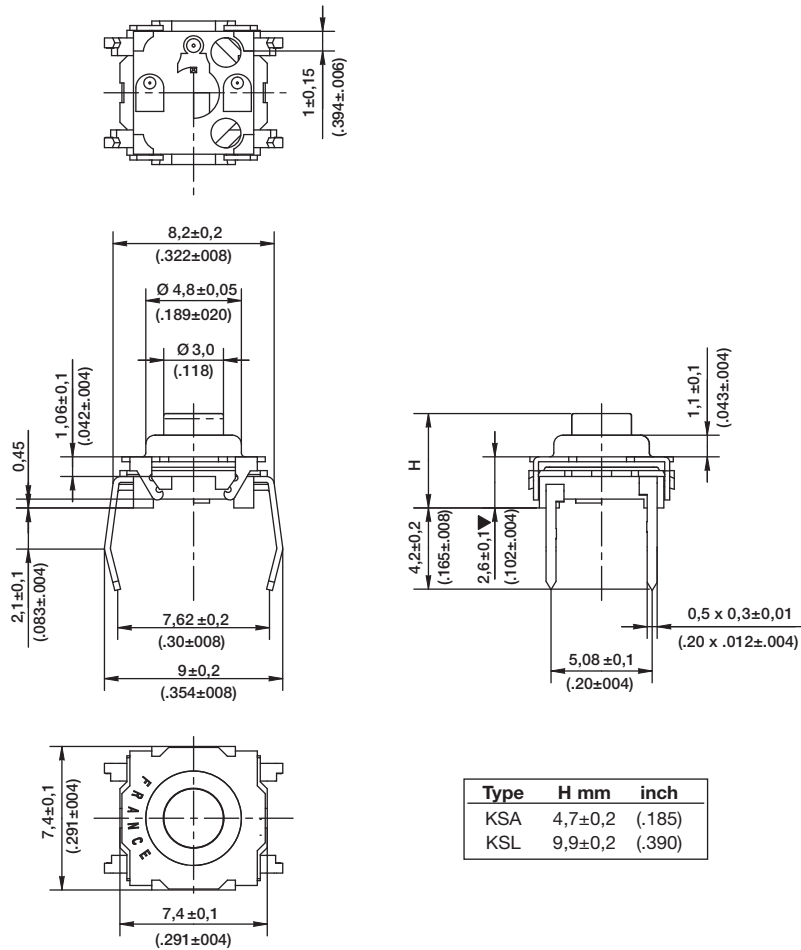


Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

KSA & KSL Series
Sealed Tact Switch

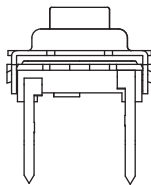
ACTUATOR TYPE

KSA & KSL

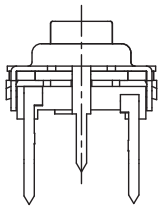


GROUND TERMINAL

0 WITHOUT



1* WITH



*Not compatible with "V" insertion



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

www.ck-components.com

Tactile Switches

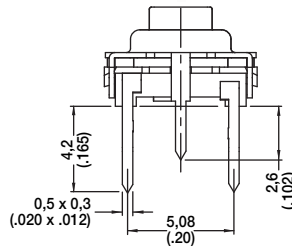
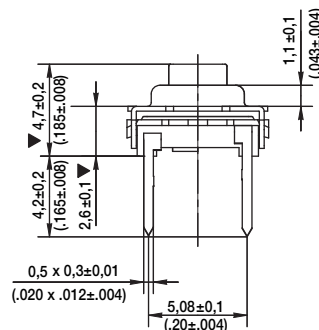


Figure 10: Dimensions for 10-pin D-subminiature connector. The diagram shows a rectangular connector footprint with four mounting holes at the corners. Dimensions are given in inches and millimeters. The overall width is 0.940 inches (23.91 mm) and the overall height is 0.900 inches (22.86 mm). The distance between the centers of the mounting holes is 0.762 inches (19.30 mm) horizontally and 0.508 inches (12.90 mm) vertically. A ground terminal is indicated as an optional feature on the top edge.

Technical drawing of a mechanical part, likely a bearing housing or flange, showing dimensions in millimeters. The drawing includes a cross-section view with various diameters and a side view showing a flange with a central hole. Dimensions are given with tolerances in parentheses.

Dimensions shown:

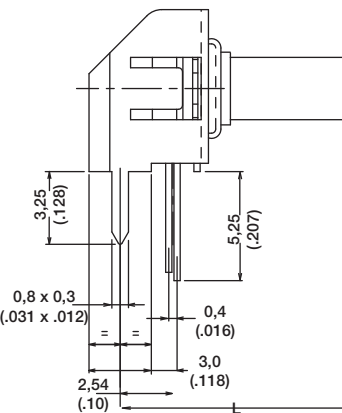
- Top outer diameter: $8,2 \pm 0,2$ ($.322 \pm .008$)
- Inner hole diameter: $\varnothing 4,8 \pm 0,05$
- Inner hole diameter: $\varnothing 3-0,06$ ($.189-.020$)
- Flange thickness: $1,06 \pm 0,1$ ($.042 \pm .004$)
- Flange outer diameter: $9,5 \pm 0,3$ ($.374 \pm .012$)
- Flange inner diameter: $0,45$ ($.018$)
- Flange hole diameter: $\varnothing 3,0$ ($.118$)
- Flange hole diameter: $\varnothing 2,5$ ($.098$)
- Flange hole diameter: $\varnothing 2,0$ ($.079$)
- Flange hole diameter: $\varnothing 1,5$ ($.059$)
- Flange hole diameter: $\varnothing 1,0$ ($.039$)
- Flange hole diameter: $\varnothing 0,5$ ($.019$)
- Flange hole diameter: $\varnothing 0,2$ ($.008$)
- Flange hole diameter: $\varnothing 0,1$ ($.004$)
- Flange hole diameter: $\varnothing 0,05$ ($.002$)
- Flange hole diameter: $\varnothing 0,02$ ($.001$)
- Flange hole diameter: $\varnothing 0,01$ ($.0005$)
- Flange hole diameter: $\varnothing 0,005$ ($.0002$)
- Flange hole diameter: $\varnothing 0,002$ ($.0001$)
- Flange hole diameter: $\varnothing 0,001$ ($.00005$)
- Flange hole diameter: $\varnothing 0,0005$ ($.00002$)
- Flange hole diameter: $\varnothing 0,0002$ ($.00001$)
- Flange hole diameter: $\varnothing 0,0001$ ($.000005$)
- Flange hole diameter: $\varnothing 0,00005$ ($.000002$)
- Flange hole diameter: $\varnothing 0,00002$ ($.000001$)
- Flange hole diameter: $\varnothing 0,00001$ ($.0000005$)
- Flange hole diameter: $\varnothing 0,000005$ ($.0000002$)
- Flange hole diameter: $\varnothing 0,000002$ ($.0000001$)
- Flange hole diameter: $\varnothing 0,000001$ ($.00000005$)
- Flange hole diameter: $\varnothing 0,0000005$ ($.00000002$)
- Flange hole diameter: $\varnothing 0,0000002$ ($.00000001$)
- Flange hole diameter: $\varnothing 0,0000001$ ($.000000005$)
- Flange hole diameter: $\varnothing 0,00000005$ ($.000000002$)
- Flange hole diameter: $\varnothing 0,00000002$ ($.000000001$)
- Flange hole diameter: $\varnothing 0,00000001$ ($.0000000005$)
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- Flange hole diameter: $\varnothing 0,0000000000001$ ($.000000000000005$)
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- Flange hole diameter: $\varnothing 0,00000000000001$ ($.0000000000000005$)
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- Flange hole diameter: $\varnothing 0,0000000000000002$ ($.00000000000000001$)
- Flange hole diameter: $\varnothing 0,0000000000000001$ ($.000000000000000005$)
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- Flange hole diameter: $\varnothing 0,000000000000000005$ ($.0000000000000000002$)
- Flange hole diameter: $\varnothing 0,000000000000000002$ ($.0000000000000000001$)
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- Flange hole diameter: $\varnothing 0,0000000000000000005$ ($.00000000000000000002$)
- Flange hole diameter: $\varnothing 0,0000000000000000002$ ($.00000000000000000001$)
- Flange hole diameter: $\varnothing 0,0000000000000000001$ ($.000000000000000000005$)
- Flange hole diameter: $\varnothing 0,00000000000000000005$ ($.000000000000000000002$)
- Flange hole diameter: $\varnothing 0,00000000000000000002$ ($.000000000000000000001$)
- Flange hole diameter: $\varnothing 0,00000000000000000001$ ($.0000000000000000000005$)
- Flange hole diameter: $\varnothing 0,000000000000000000005$ ($.0000000000000000000002$)
- Flange hole diameter: $\varnothing 0,000000000000000000002$ ($.0000000000000000000001$)
- Flange hole diameter: $\varnothing 0,000000000000000000001$ ($.00000000000000000000005$)
- Flange hole diameter: $\varnothing 0,0000000000000000000005$ ($.00000000000000000000002$)
- Flange hole diameter: $\varnothing 0,0000000000000000000002$ ($.00000000000000000000001$)
- Flange hole diameter: $\varnothing 0,0000000000000000000001$ ($.000000000000000000000005$)
- Flange hole diameter: $\varnothing 0,00000000000000000000005$ ($.000000000000000000000002$)
- Flange hole diameter: $\varnothing 0,00000000000000000000002$ ($.00000000000000$



Technical drawing of a mechanical part, showing a top view and a side view. The top view is a circle with a central hole and four radial slots. The side view shows the profile of the part with dimensions. Dimensions are given in mm and inches.

Dimensions (mm / inches):

- Overall width: 9,5 (.374)
- Overall height: 8,0 (.315)
- Distance from top edge to the start of the radial slots: 4,85 (.191)
- Distance from the start of the radial slots to the center: 5,08 (.20)
- Distance from the center to the end of the radial slots: 7,6 (.300)
- Slot width: 0,5 x 0,3 (.020 x .012)



Technical drawing of a mechanical part showing dimensions and tolerances. The drawing includes the following dimensions and tolerances:

- Horizontal distance between the first and second hole centers: 7,62 (+0,300)
- Horizontal distance between the second and third hole centers: 5,08 (+0,200)
- Vertical distance between the first and second hole centers: 2,54 (+0,100)
- Horizontal distance between the second and third hole centers (with a sloped line indicating a specific feature): 5,08 (+0,200)
- Horizontal distance between the first and third hole centers: 12,70 (+0,500)
- Horizontal distance between the first and fourth hole centers: 17,78 (+0,700)
- Horizontal distance between the second and fifth hole centers: 22,86 (+0,900)
- Horizontal distance between the third and sixth hole centers: 27,94 (+1,000)
- Horizontal distance between the fourth and seventh hole centers: 33,02 (+1,100)
- Horizontal distance between the fifth and eighth hole centers: 38,10 (+1,200)
- Horizontal distance between the sixth and ninth hole centers: 43,18 (+1,300)
- Horizontal distance between the seventh and tenth hole centers: 48,26 (+1,400)
- Horizontal distance between the eighth and eleventh hole centers: 53,34 (+1,500)
- Horizontal distance between the ninth and twelfth hole centers: 58,42 (+1,600)
- Horizontal distance between the tenth and thirteenth hole centers: 63,50 (+1,700)
- Horizontal distance between the eleventh and fourteenth hole centers: 68,58 (+1,800)
- Horizontal distance between the twelfth and fifteenth hole centers: 73,66 (+1,900)
- Horizontal distance between the thirteenth and sixteenth hole centers: 78,74 (+2,000)
- Horizontal distance between the fourteenth and seventeenth hole centers: 83,82 (+2,100)
- Horizontal distance between the fifteenth and eighteenth hole centers: 88,90 (+2,200)
- Horizontal distance between the sixteenth and nineteenth hole centers: 93,98 (+2,300)
- Horizontal distance between the seventeenth and twentieth hole centers: 99,06 (+2,400)
- Horizontal distance between the eighteenth and twenty-first hole centers: 104,14 (+2,500)
- Horizontal distance between the nineteenth and twenty-second hole centers: 109,22 (+2,600)
- Horizontal distance between the twentieth and twenty-third hole centers: 114,30 (+2,700)
- Horizontal distance between the twenty-first and twenty-fourth hole centers: 119,38 (+2,800)
- Horizontal distance between the twenty-second and twenty-fifth hole centers: 124,46 (+2,900)
- Horizontal distance between the twenty-third and twenty-sixth hole centers: 129,54 (+3,000)
- Horizontal distance between the twenty-fourth and twenty-seventh hole centers: 134,62 (+3,100)
- Horizontal distance between the twenty-fifth and twenty-eighth hole centers: 139,70 (+3,200)
- Horizontal distance between the twenty-sixth and twenty-ninth hole centers: 144,78 (+3,300)
- Horizontal distance between the twenty-seventh and thirtieth hole centers: 149,86 (+3,400)
- Horizontal distance between the twenty-eighth and thirty-first hole centers: 154,94 (+3,500)
- Horizontal distance between the twenty-ninth and thirty-second hole centers: 160,02 (+3,600)
- Horizontal distance between the thirtieth and thirty-third hole centers: 165,10 (+3,700)
- Horizontal distance between the thirty-first and thirty-fourth hole centers: 170,18 (+3,800)
- Horizontal distance between the thirty-second and thirty-fifth hole centers: 175,26 (+3,900)
- Horizontal distance between the thirty-third and thirty-sixth hole centers: 180,34 (+4,000)
- Horizontal distance between the thirty-fourth and thirty-seventh hole centers: 185,42 (+4,100)
- Horizontal distance between the thirty-fifth and thirty-eighth hole centers: 190,50 (+4,200)
- Horizontal distance between the thirty-sixth and thirty-ninth hole centers: 195,58 (+4,300)
- Horizontal distance between the thirty-seventh and fortieth hole centers: 200,66 (+4,400)
- Horizontal distance between the thirty-eighth and forty-first hole centers: 205,74 (+4,500)
- Horizontal distance between the thirty-ninth and forty-second hole centers: 210,82 (+4,600)
- Horizontal distance between the fortieth and forty-third hole centers: 215,90 (+4,700)
- Horizontal distance between the forty-first and forty-fourth hole centers: 220,98 (+4,800)
- Horizontal distance between the forty-second and forty-fifth hole centers: 226,06 (+4,900)
- Horizontal distance between the forty-third and forty-sixth hole centers: 231,14 (+5,000)
- Horizontal distance between the forty-fourth and forty-seventh hole centers: 236,22 (+5,100)
- Horizontal distance between the forty-fifth and forty-eighth hole centers: 241,30 (+5,200)
- Horizontal distance between the forty-sixth and forty-ninth hole centers: 246,38 (+5,300)
- Horizontal distance between the forty-seventh and fiftieth hole centers: 251,46 (+5,400)
- Horizontal distance between the forty-eighth and fifty-first hole centers: 256,54 (+5,500)
- Horizontal distance between the forty-ninth and fifty-second hole centers: 261,62 (+5,600)
- Horizontal distance between the fiftieth and fifty-third hole centers: 266,70 (+5,700)
- Horizontal distance between the fifty-first and fifty-fourth hole centers: 271,78 (+5,800)
- Horizontal distance between the fifty-second and fifty-fifth hole centers: 276,86 (+5,900)
- Horizontal distance between the fifty-third and fifty-sixth hole centers: 281,94 (+6,000)
- Horizontal distance between the fifty-fourth and fifty-seventh hole centers: 287,02 (+6,100)
- Horizontal distance between the fifty-fifth and fifty-eighth hole centers: 292,10 (+6,200)
- Horizontal distance between the fifty-sixth and fifty-ninth hole centers: 297,18 (+6,300)
- Horizontal distance between the fifty-seventh and sixtieth hole centers: 302,26 (+6,400)
- Horizontal distance between the fifty-eighth and sixty-first hole centers: 307,34 (+6,500)
- Horizontal distance between the fifty-ninth and sixty-second hole centers: 312,42 (+6,600)
- Horizontal distance between the sixtieth and sixty-third hole centers: 317,50 (+6,700)
- Horizontal distance between the sixty-first and sixty-fourth hole centers: 322,58 (+6,800)
- Horizontal distance between the sixty-second and sixty-fifth hole centers: 327,66 (+6,900)
- Horizontal distance between the sixty-third and sixty-sixth hole centers: 332,74 (+7,000)
- Horizontal distance between the sixty-fourth and sixty-seventh hole centers: 337,82 (+7,100)
- Horizontal distance between the sixty-fifth and sixty-eighth hole centers: 342,90 (+7,200)
- Horizontal distance between the sixty-sixth and sixty-ninth hole centers: 347,98 (+7,300)
- Horizontal distance between the sixty-seventh and seventieth hole centers: 353,06 (+7,400)
- Horizontal distance between the sixty-eighth and seventy-first hole centers: 358,14 (+7,500)
- Horizontal distance between the sixty-ninth and seventy-second hole centers: 363,22 (+7,600)
- Horizontal distance between the seventieth and seventy-third hole centers: 368,30 (+7,700)
- Horizontal distance between the seventy-first and seventy-fourth hole centers: 373,38 (+7,800)
- Horizontal distance between the seventy-second and seventy-fifth hole centers: 378,46 (+7,900)
- Horizontal distance between the seventy-third and seventy-sixth hole centers: 383,54 (+8,000)
- Horizontal distance between the seventy-fourth and seventy-seventh hole centers: 388,62 (+8,100)
- Horizontal distance between the seventy-fifth and eightieth hole centers: 393,70 (+8,200)
- Horizontal distance between the seventy-sixth and eighty-first hole centers: 398,78 (+8,300)
- Horizontal distance between the seventy-seventh and eighty-second hole centers: 403,86 (+8,400)
- Horizontal distance between the seventy-eighth and eighty-third hole centers: 408,94 (+8,500)
- Horizontal distance between the seventy-ninth and eighty-fourth hole centers: 414,02 (+8,600)
- Horizontal distance between the eightieth and eighty-fifth hole centers: 419,10 (+8,700)
- Horizontal distance between the eighty-first and eighty-sixth hole centers: 424,18 (+8,800)
- Horizontal distance between the eighty-second and eighty-seventh hole centers: 429,26 (+8,900)
- Horizontal distance between the eighty-third and eighty-eighth hole centers: 434,34 (+9,000)
- Horizontal distance between the eighty-fourth and eighty-ninth hole centers: 439,42 (+9,100)
- Horizontal distance between the eighty-fifth and ninetyth hole centers: 444,50 (+9,200)
- Horizontal distance between the eighty-sixth and ninety-first hole centers: 449,58 (+9,300)
- Horizontal distance between the eighty-seventh and ninety-second hole centers: 454,66 (+9,400)
- Horizontal distance between the eighty-eighth and ninety-third hole centers: 459,74 (+9,500)
- Horizontal distance between the eighty-ninth and ninety-fourth hole centers: 464,82 (+9,600)
- Horizontal distance between the ninetieth and ninety-fifth hole centers: 469,90 (+9,700)
- Horizontal distance between the ninety-first and ninety-sixth hole centers: 474,98 (+9,800)
- Horizontal distance between the ninety-second and ninety-seventh hole centers: 480,06 (+9,900)
- Horizontal distance between the ninety-third and ninety-eighth hole centers: 485,14 (+10,000)
- Horizontal distance between the ninety-fourth and ninety-ninth hole centers: 490,22 (+10,100)
- Horizontal distance between the ninety-fifth and one hundredth hole centers: 495,30 (+10,200)
- Horizontal distance between the ninety-sixth and one hundred and first hole centers: 500,38 (+10,300)
- Horizontal distance between the ninety-seventh and one hundred and second hole centers: 505,46 (+10,400)
- Horizontal distance between the ninety-eighth and one hundred and third hole centers: 510,54 (+10,500)
- Horizontal distance between the ninety-ninth and one hundred and fourth hole centers: 515,62 (+10,600)
- Horizontal distance between the one hundredth and one hundred and fifth hole centers: 520,70 (+10,700)
- Horizontal distance between the one hundred and first and one hundred and sixth hole centers: 525,78 (+10,800)
- Horizontal distance between the one hundred and second and one hundred and seventh hole centers: 530,86 (+10,900)
- Horizontal distance between the one hundred and third and one hundred and eighth hole centers: 535,94 (+11,000)
- Horizontal distance between the one hundred and fourth and one hundred and ninth hole centers: 541,02 (+11,100)
- Horizontal distance between the one hundred and fifth and one hundred and tenth hole centers: 546,10 (+11,200)
- Horizontal distance between the one hundred and sixth and one hundred and eleventh hole centers: 551,18 (+11,300)
- Horizontal distance between the one hundred and seventh and one hundred and twelfth hole centers: 556,26 (+11,400)
- Horizontal distance between the one hundred and eighth and one hundred and thirteenth hole centers: 561,34 (+11,500)
- Horizontal distance between the one hundred and ninth and one hundred and fourteenth hole centers: 566,42 (+11,600)
- Horizontal distance between the one hundred and tenth and one hundred and fifteenth hole centers: 571,50 (+11,700)
- Horizontal distance between the one hundred and eleventh and one hundred and sixteenth hole centers: 576,58 (+11,800)
- Horizontal distance between the one hundred and twelfth and one hundred and seventeenth hole centers: 581,66 (+11,900)
- Horizontal distance between the one hundred and thirteenth and one hundred and eighteenth hole centers: 586,74 (+12,000)
- Horizontal distance between the one hundred and fourteenth and one hundred and nineteenth hole centers: 591,82 (+12,100)
- Horizontal distance between the one hundred and fifteenth and one hundred and twentieth hole centers: 596,90 (+12,200)
- Horizontal distance between the one hundred and sixteenth and one hundred and twenty-first hole centers: 601,98 (+12,300)
- Horizontal distance between the one hundred and seventeenth and one hundred and twenty-second hole centers: 607,06 (+12,400)
- Horizontal distance between the one hundred and eighteenth and one hundred and twenty-third hole centers: 612,14 (+12,500)
- Horizontal distance between the one hundred and nineteenth and one hundred and twenty-fourth hole centers: 617,22 (+12,600)
- Horizontal distance between

Type	L mm	inch
KSA0V	5,8	.228
KSL0V	11,1	.437

First Angle Projection

Specifications and dimensions subject to change

KSA & KSL Series
Sealed Tact Switch

CONTACT MATERIAL



OPTION CODE	CONTACT MATERIAL
1	Silver contacts
3	Gold contacts



B

Tactile Switches

SEALING



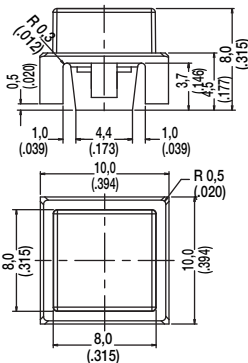
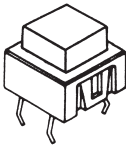
OPTION CODE	SEALING
1	Sealing level IP60

BUTTONS

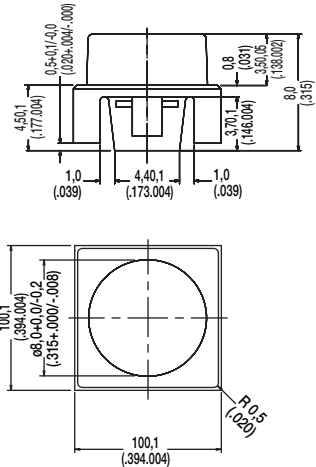
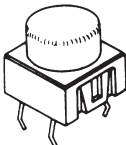
Buttons must be ordered separately and will be supplied in bulk.

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

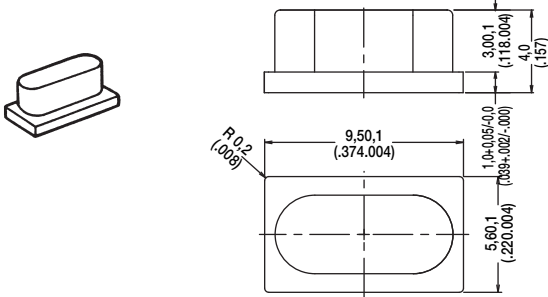


KSA & KSL Series Sealed Tact Switch

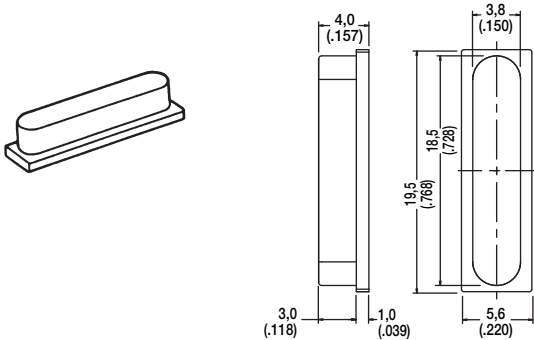
Tactile Switches

B

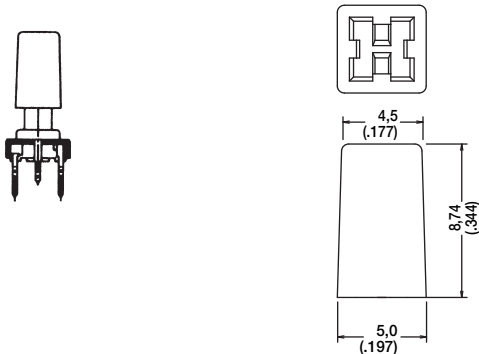
K03



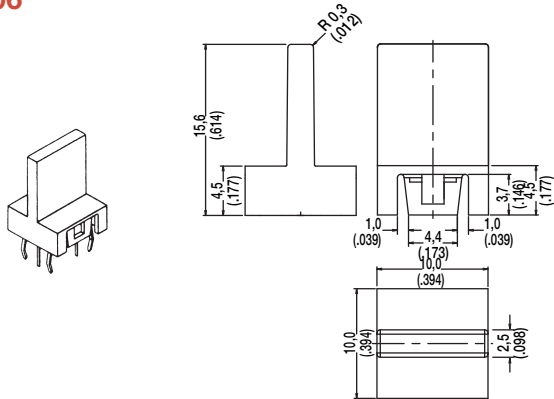
K04



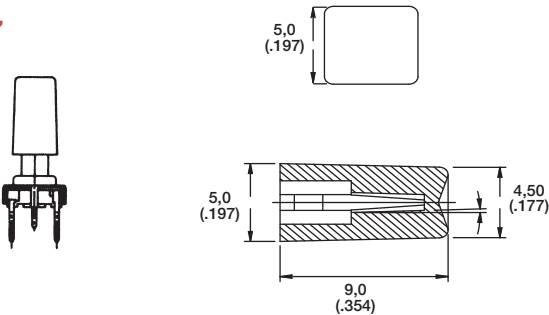
K05



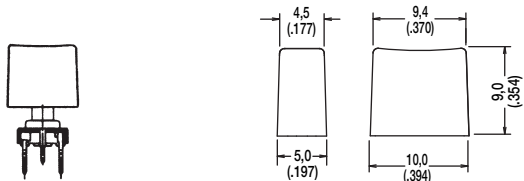
K06



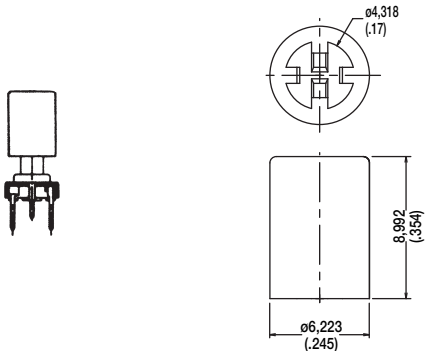
K07



K08



K09



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

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