

ALPS



EUROPEAN
SELECTION
2000 / 2001



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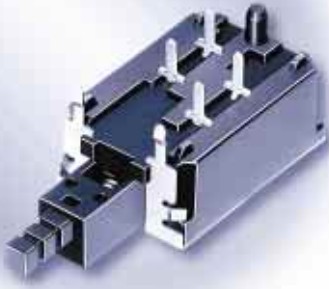
For more information on Alps
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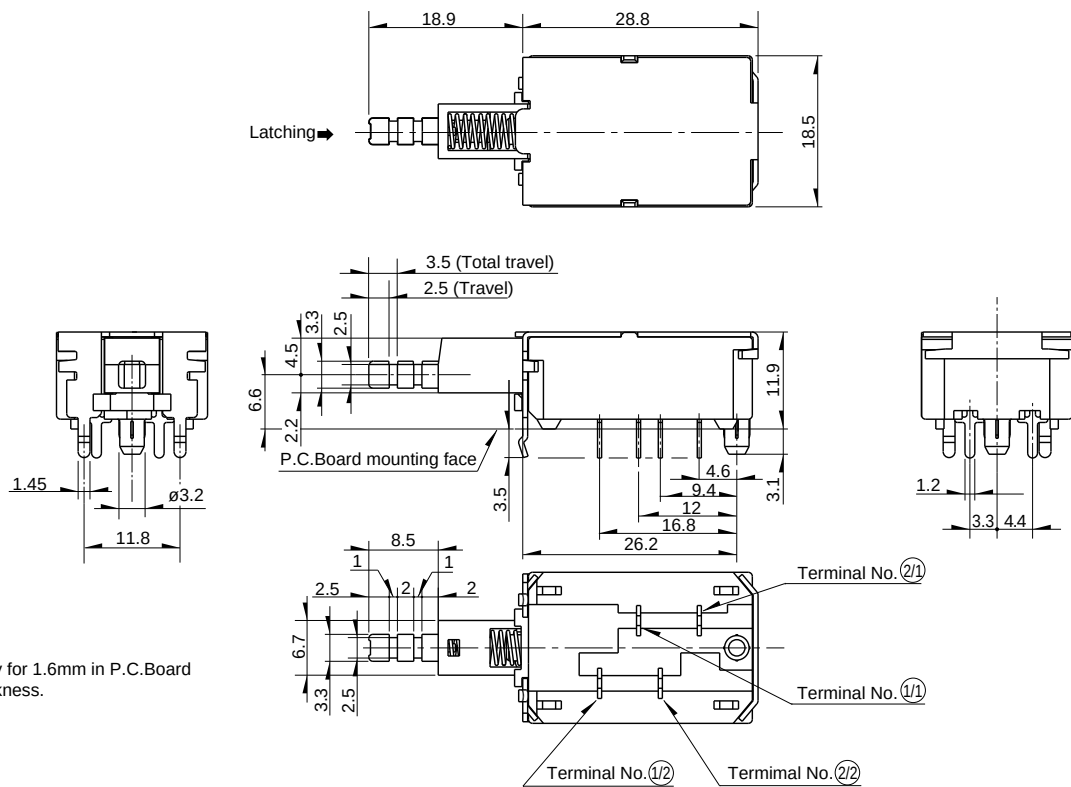
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Order Number	Model	Terminal Type	Travel
STPSDKEA3	SDKEA3	Printed Terminals	2,5 mm

STPSDKEA3



Unit: (mm)

Push Switches

5

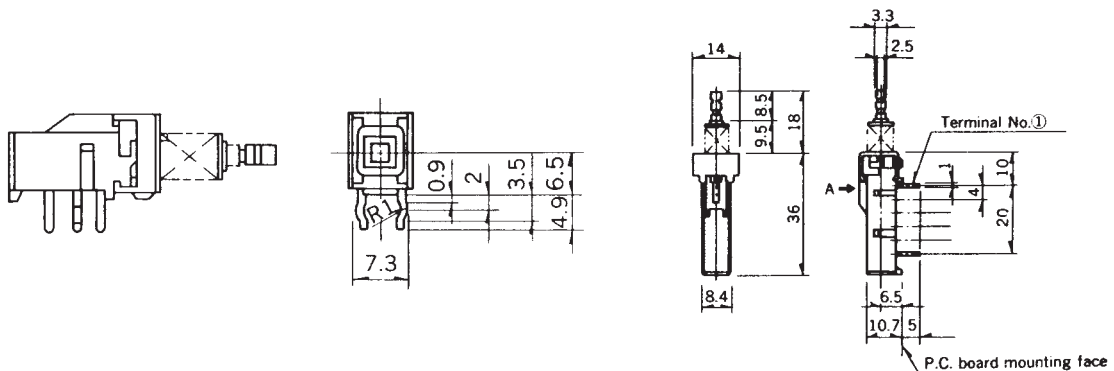


Order Number	Model	Number of Poles	Number of Position	Mode
STSPUN121	SPUN19-2N-LB	2	2	Momentary
STSPUN141	SPUN19-4N-LB	4	2	Momentary
STSPUN122	SPUN19-2N-W	2	2	Latching
STSPUN142	SPUN19-4N-W	4	2	Latching
STSPEC123	SPEC12-2N-W2	2	2	Latching
STSPEC124	SPEC12-2N-LB2	2	2	Momentary

Ratings: 0.1A 30V DC; straight terminals as standard

SPUN19

Snap-In Terminals Optional



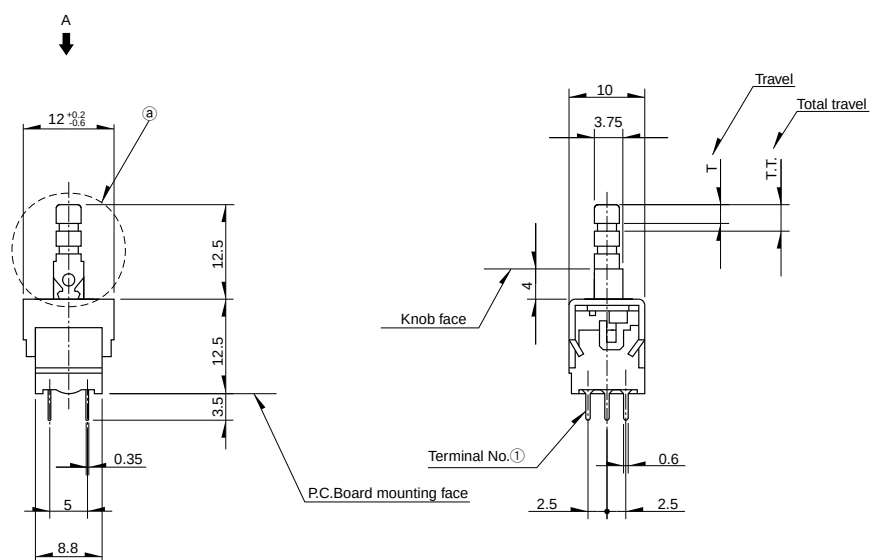
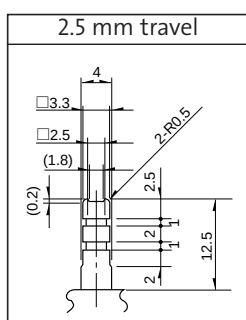
SPEC12

Snap-In Terminals Optional

1. Travel and Total Travel

T	T.T.
2.5	3.4

2. Detail of a



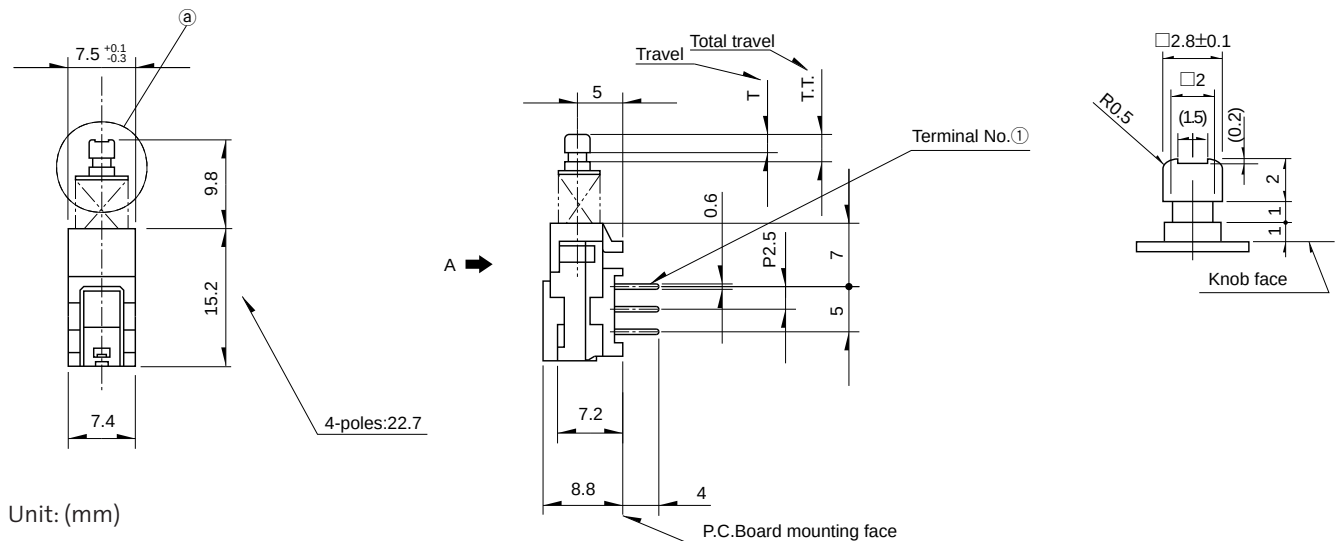
Unit: (mm)

Push Switches

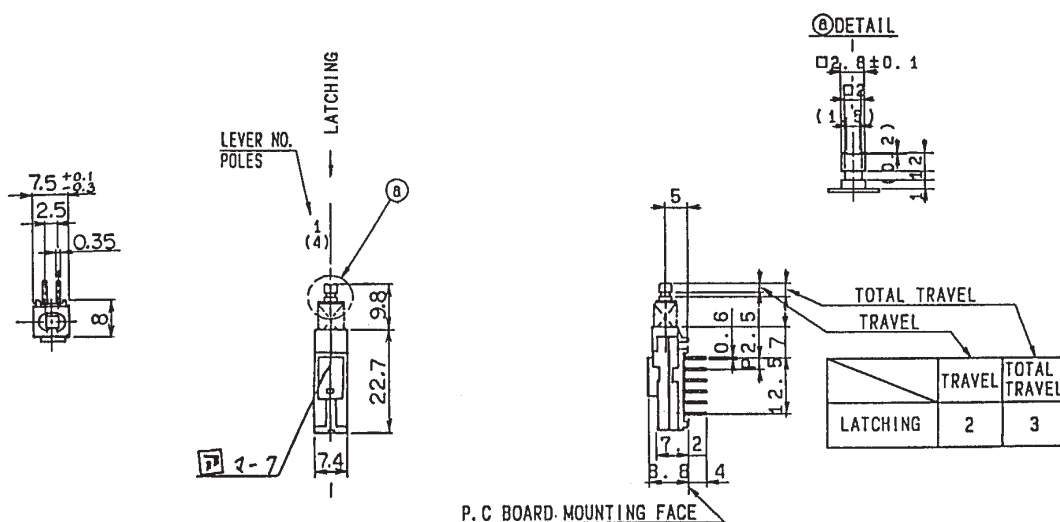


Order Number	Model	Number of Poles	Ratings	Mode	Mounting Height (mm)	Change Over Timing	Life (Cycles)
STSPUJ121	SPUJ19-2N-LB	2	0.1A 30V DC	Momentary	5 mm	Non-shorting	10.000
STSPUJ141	SPUJ19-4N-LB	4	0.1A 30V DC	Momentary	5 mm	Non-shorting	10.000
STSPUJ122	SPUJ19-2N-W	2	0.1A 30V DC	Latching	5 mm	Non-shorting	10.000
STSPUJ142	SPUJ19-4N-W	4	0.1A 30V DC	Latching	5 mm	Non-shorting	10.000

SPUJ12 Series



SPUJ14 Series



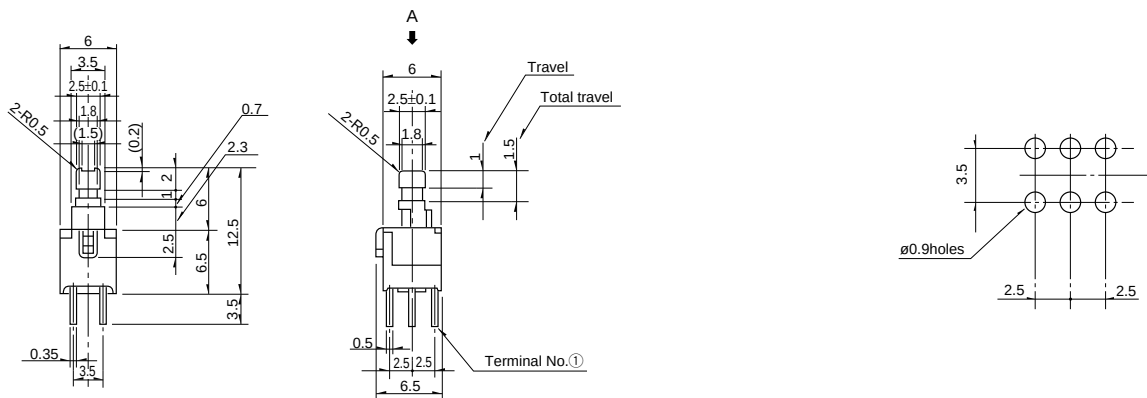
Push Switches

7

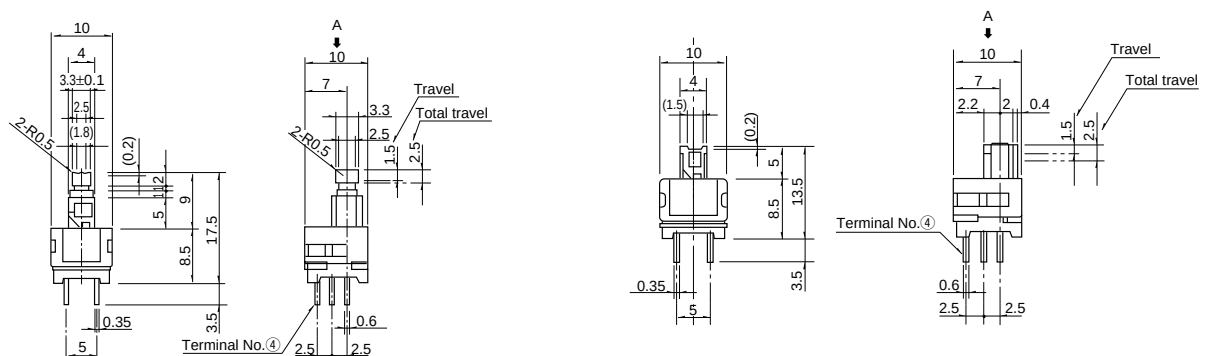


Order Number	Model	Number of Poles	Number of Position	Mode	Terminal Type	Change Over Timing
STSPPH211	SPPH21-W	2	2	Latching	Straight	Non-shorting
STSPPH111	SPPH11-W	2	2	Latching	Straight	Non-shorting
STSPPH411	SPPH41-W	2	2	Latching	Straight	Non-shorting
STSPPH412	SPPH41-LB	2	2	Momentary	Straight	Non-shorting

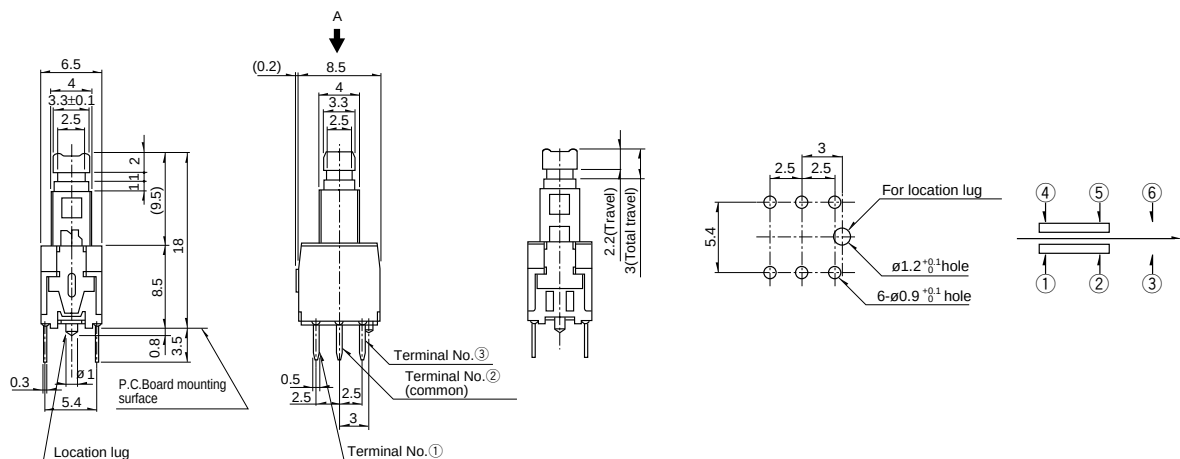
SPPH21 Series



SPPH11 Series



SPPH41 Series



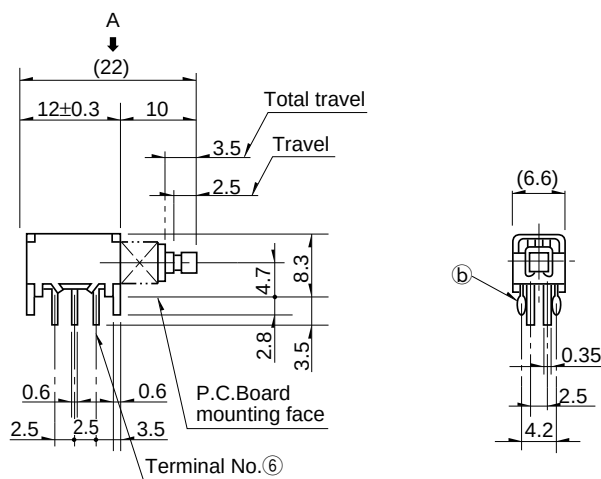
Unit: (mm)

Push Switches

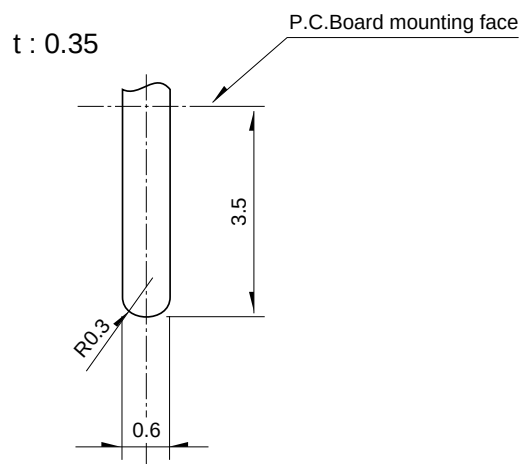


Order Number	Model	Number of Poles	Number of Position	Mode	Terminal Type	Change Over Timing
STSPJ301	SPPJ3-EN2-PW	2	2	Latching	Printed wiring Terminals	Non-shorting
STSPJ302	SPPJ3-EN2-PLB	2	2	Momentary	Printed wiring Terminals	Non-shorting

SPPJ3 Series



Terminal for printed wiring



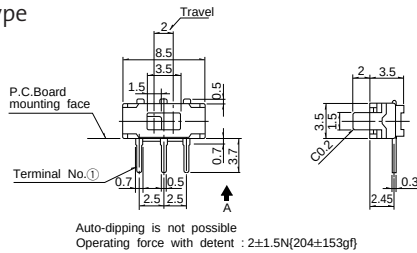
Unit: (mm)

Slide Switches

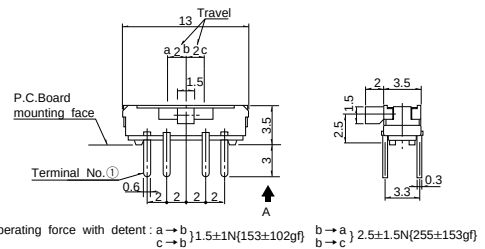


Order Number	Model	Direction of Knob	Number of Poles	Number of Positions	Lever Height (mm)	Change Over Timing	Life (Cycles)	Contact Resistance (mΩ)	Type
STSSS2121	SSSS212-01	Vertical	1	2	2 mm	Non-shorting	5,000	70 mΩ	Standard
STSSS2131	SSSS213-01	Vertical	1	3	2 mm	Non-shorting	5,000	70 mΩ	Standard
STSSS2221	SSSS222-01	Vertical	2	2	2 mm	Non-shorting	5,000	70 mΩ	Standard
STSSS2231	SSSS223-01	Vertical	2	3	2 mm	Non-shorting	5,000	70 mΩ	Standard
STSSS2122	SSSS212-11	Horizontal	1	2	2 mm	Non-shorting	5,000	70 mΩ	Standard
STSSS2132	SSSS213-11	Horizontal	1	3	2 mm	Non-shorting	5,000	70 mΩ	Standard
STSSS2222	SSSS222-11	Horizontal	2	2	2 mm	Non-shorting	5,000	70 mΩ	Standard
STSSS2232	SSSS223-11	Horizontal	2	3	2 mm	Non-shorting	5,000	70 mΩ	Standard

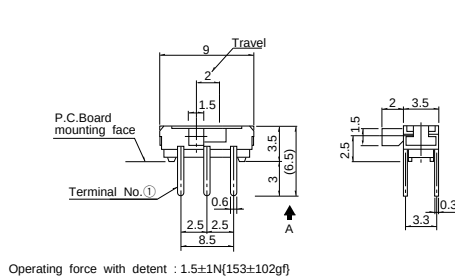
SSSS2 Series Horizontal Type



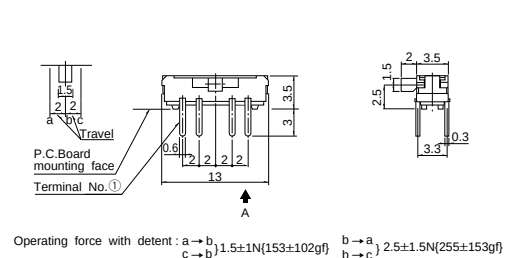
1-2



1-3

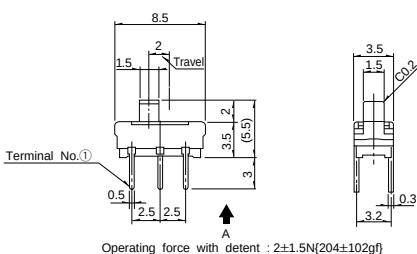


2-2

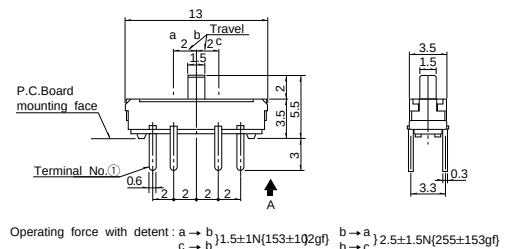


2-3

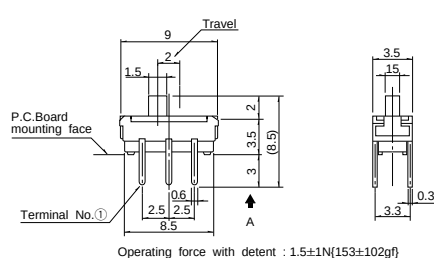
SSSS2 Series Vertical Type



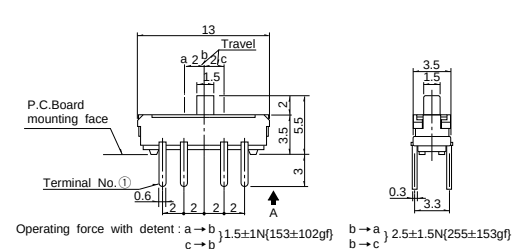
1-2



1-3



2-2



2-3

Unit: (mm)

Rotary Switches

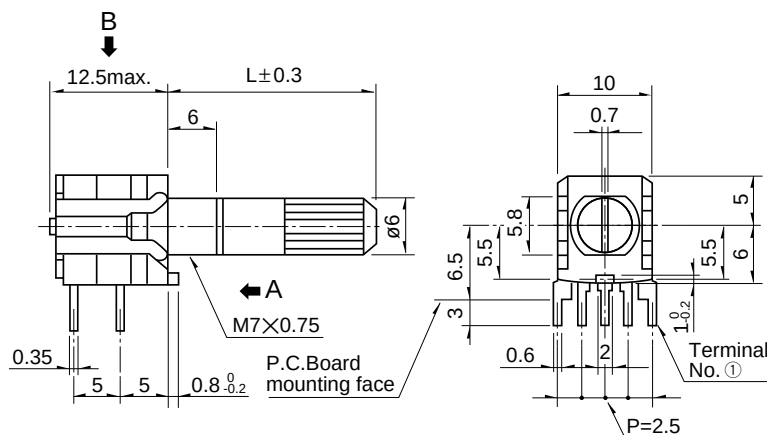
11



Order Number	Model	Number of Poles	Number of Position	Shaft Style	Change Over Timing	Shaft Length (mm)
STSRBM141	SRBM14N-K20	1	4	KNURL	Non-shorting	20 mm
STSRBM151	SRBM15N-K20	1	5	KNURL	Non-shorting	20 mm
STSRBM161	SRBM16N-K20	1	6	KNURL	Non-shorting	20 mm

SRBM Series

1 Pole



2 to 4-Position		5-Position a1		6-Position a2	
REAR	FRONT	REAR	FRONT	REAR	FRONT

a1.: Circuit steps are 2 to 5 positions at front, and 1 to 4 positions at rear.

a2.: Circuit steps are 3 to 6 positions at front, and 1 to 4 positions at rear.

a1,a2: It is necessary external wiring of common terminals.

Unit: (mm)

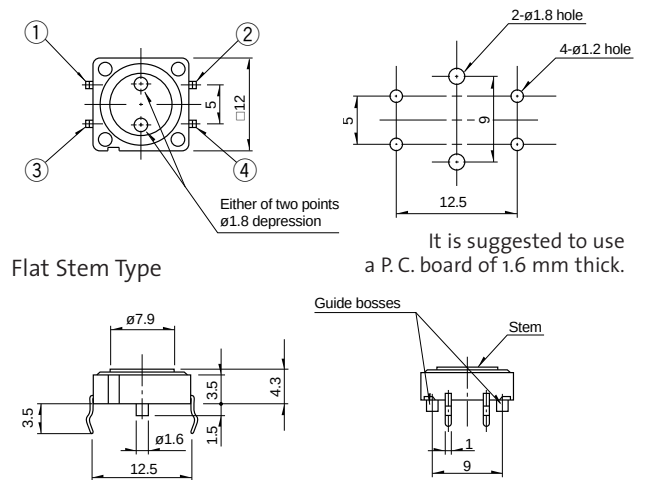
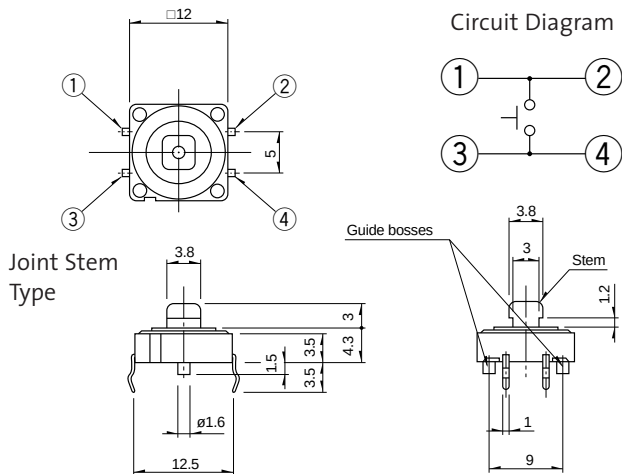
Tact Switches

Metal Contact (Standard Bulk Type)

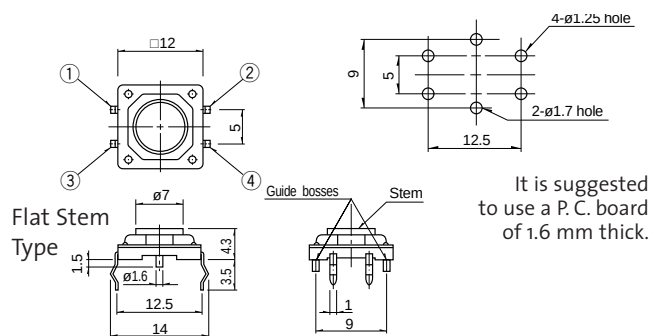
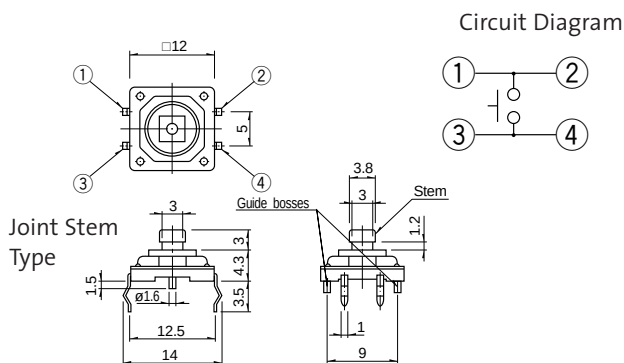


Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKHCAA	SKHCAA	1.274 N	10 ⁶ cycles	Joint Stem Type (12x12 mm)
STTSKHCAC	SKHCAC	2.548 N	5 x 10 ⁵ cycles	Joint Stem Type (12x12 mm)
STTSKHCAE	SKHCAE	0.735 N	5 x 10 ⁵ cycles	Joint Stem Type (12x12 mm)
STTSKHCAG	SKHCAG	1.274 N	3 x 10 ⁶ cycles	Joint Stem Type (12x12 mm)
STTSKHCAB	SKHCAB	1.274 N	10 ⁶ cycles	Flat Stem Type (12x12 mm)
STTSKHCAD	SKHCAD	2.548 N	5 x 10 ⁵ cycles	Flat Stem Type (12x12 mm)
STTSKHCAF	SKHCAF	0.735 N	5 x 10 ⁵ cycles	Flat Stem Type (12x12 mm)
STTSKHCAH	SKHCAH	1.274 N	3 x 10 ⁶ cycles	Flat Stem Type (12x12 mm)
STTSKQEAA	SKQEAA	1.568 N	10 ⁷ cycles	Joint Stem Type (12x12 mm)
STTSKQEAC	SKQEAC	2.548 N	10 ⁷ cycles	Joint Stem Type (12x12 mm)
STTSKQEAB	SKQEAB	1.568 N	10 ⁷ cycles	Flat Stem Type (12x12 mm)
STTSKQEAD	SKQEAD	2.548 N	10 ⁷ cycles	Flat Stem Type (12x12 mm)

SKHC Series



SKQE Series



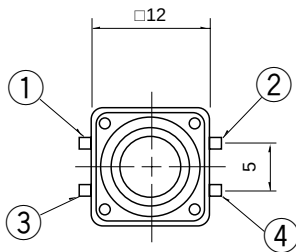
Unit: (mm)

Tact Switches

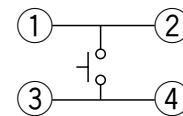
Metal Contact (Standard Bulk Type)



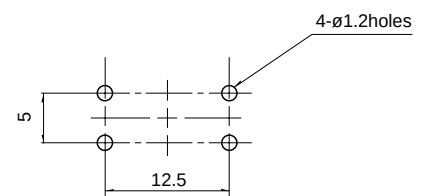
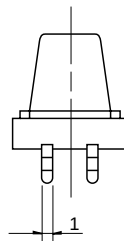
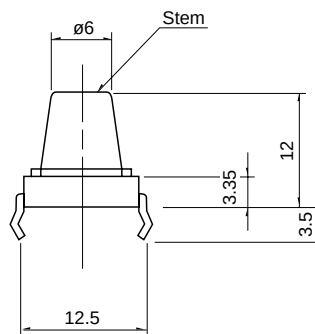
Order Number	Model	Operating Force (N)	Life (Cycles)	Initial contact resistance	Stem color	Case color
STTSKHKAA	SKHKAA	1.274N	5x10 ⁵ cycles	max. 100 mΩ	Light gray	Black



Circuit diagram



Printed circuit board mounting hole dimensions
(When viewed from switch mounting face)



It is suggested to use a P.C.Board of 1.6mm thick.

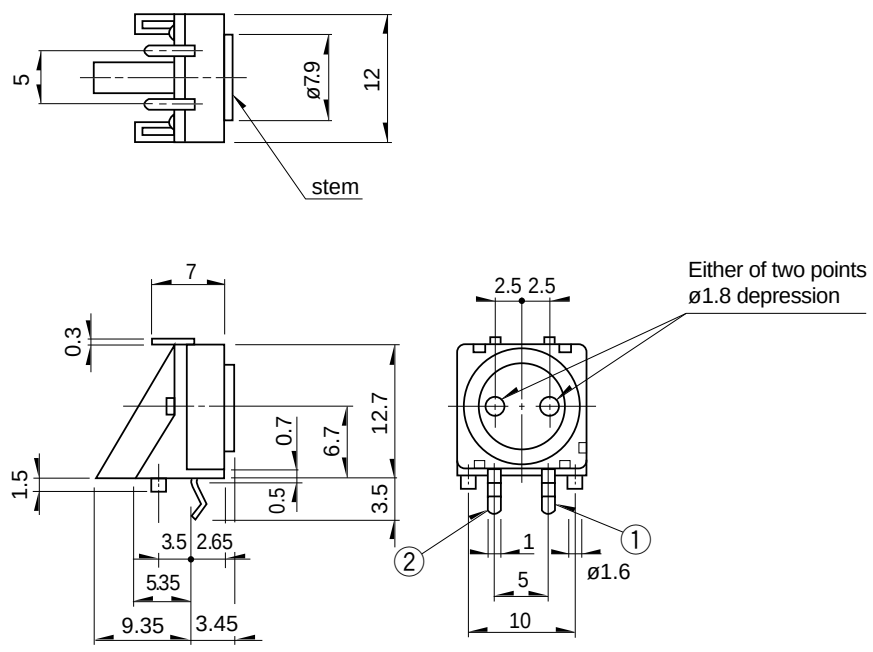
Tact Switches

Metal Contact (Standard Bulk Type)

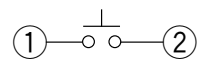


Order Number	Model	Operating Force (N)	Life (Cycles)
STTSKHCLA	SKHCLA	1.274 N	5 x 10 ⁵ cycles

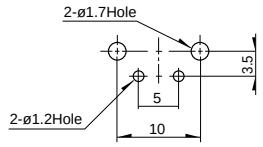
Horizontal type



Circuit diagram



Printed Circuit board mounting hole dimensions
(When viewed from switch mounting face)



It is suggested to use a P.C. board of 1.6 mm thick

Tact Switches

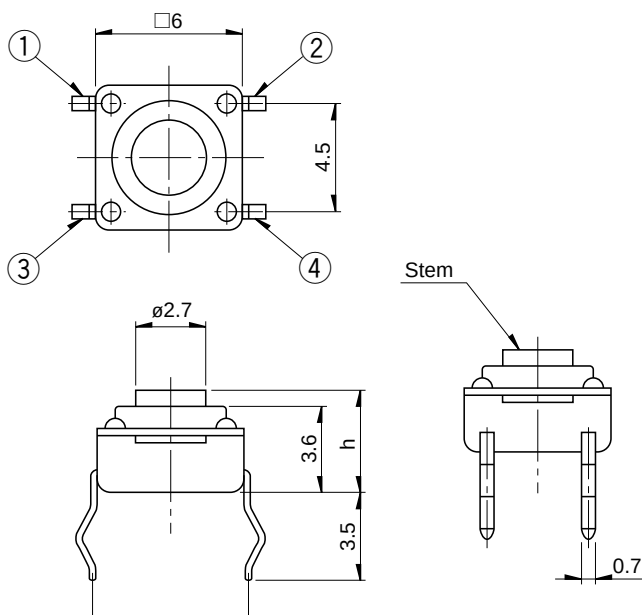
Metal Contact (Standard Bulk Type)

15

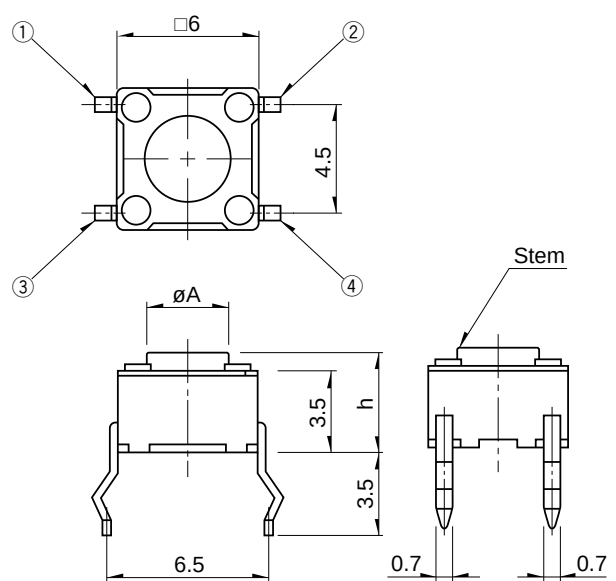


Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKHWAC	SKHWAC	1.568 N	10 ⁶ cycles	H= 4.3 mm (6x6 mm)
STTSKHWAD	SKHWAD	2.548 N	5 x 10 ⁵ cycles	H= 4.3 mm (6x6 mm)
STTSKHWAA	SKHWAA	1.568 N	10 ⁶ cycles	H= 5 mm (6x6 mm)
STTSKHWAB	SKHWAB	2.548 N	5 x 10 ⁵ cycles	H= 5 mm (6x6 mm)
STTSKHHAJ	SKHHAJ	0.980 N	10 ⁶ cycles	H= 4.3 mm (6x6 mm)
STTSKHHAL	SKHHAL	1.568 N	5 x 10 ⁵ cycles	H= 4.3 mm (6x6 mm)
STTSKHHAQ	SKHHAQ	2.548 N	2 x 10 ⁵ cycles	H= 4.3 mm (6x6 mm)
STTSKHHBC	SKHHBC	1.960 N	2 x 10 ⁶ cycles	H= 4.3 mm (6x6 mm)
STTSKHHAK	SKHHAK	0.980 N	10 ⁶ cycles	H= 5 mm (6x6 mm)
STTSKHHAM	SKHHAM	1.568 N	5 x 10 ⁵ cycles	H= 5 mm (6x6 mm)
STTSKHHDC	SKHHDC	1.960 N	2 x 10 ⁶ cycles	H= 5 mm (6x6 mm)
STTSKHHAR	SKHHAR	2.548 N	2 x 10 ⁵ cycles	H= 5 mm (6x6 mm)
STTSKHHCQ	SKHHCQ	3.528 N	2 x 10 ⁵ cycles	H= 5 mm (6x6 mm)
STTSKHHCR	SKHHCR	5.096 N	2 x 10 ⁵ cycles	H= 5 mm (6x6 mm)
STTSKHHBV	SKHHBV	0.980 N	10 ⁶ cycles	H= 7 mm (6x6 mm)
STTSKHHBW	SKHHBW	1.568 N	5 x 10 ⁵ cycles	H= 7 mm (6x6 mm)
STTSKHHBY	SKHHBY	2.548 N	2 x 10 ⁵ cycles	H= 7 mm (6x6 mm)
STTSKHHAN	SKHHAN	0.980 N	10 ⁶ cycles	H= 9.5 mm (6x6 mm)
STTSKHHAP	SKHHAP	1.568 N	5 x 10 ⁵ cycles	H= 9.5 mm (6x6 mm)
STTSKHHBS	SKHHBS	2.548 N	2 x 10 ⁵ cycles	H= 9.5 mm (6x6 mm)

SKHW Series



SKHH Series



Unit: (mm)

Tact Switches

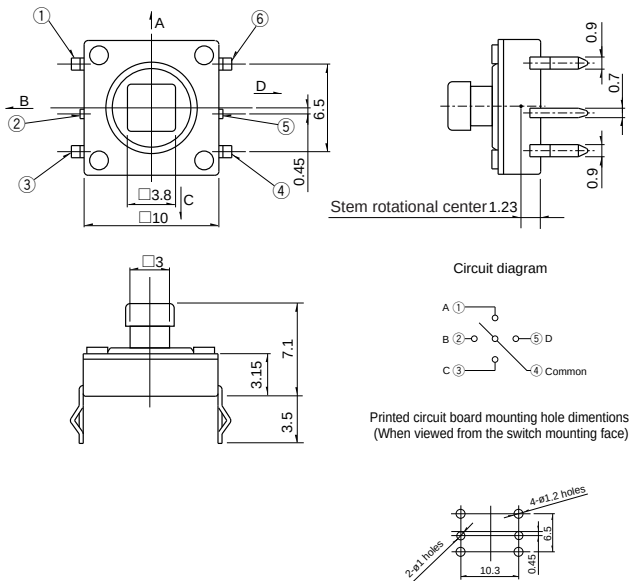
Multifunction Tact Switch



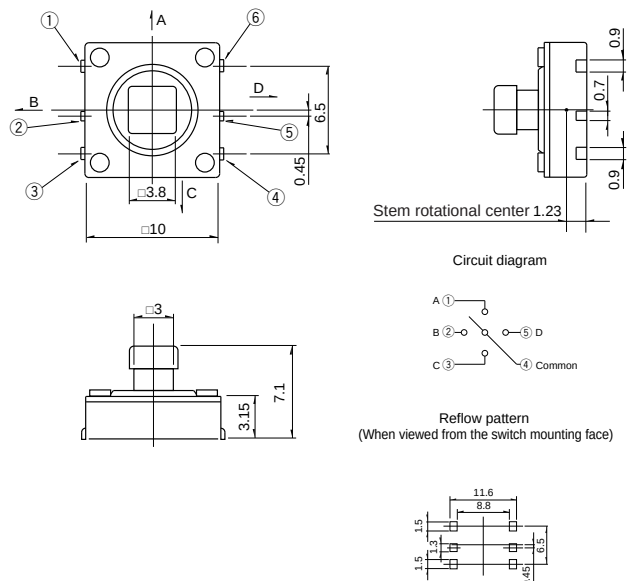
Order Number	Model	Operating Force (N)	Life (Cycles)	Dimension (mm)	Type
STTSKQUAA	SKQUAA	1,568 N	5 x 10 ⁴ each direction	H = 7.1 mm (10 x 10 mm)	Snap-in
STTSKQUBA	SKQUBA	1,568 N	5 x 10 ⁴ each direction	H = 7.1 mm (10 x 10 mm)	SMD
STTSKQUCA	SKQUCA	1,568 N	1 x 10 ⁵ each direction	H = 10 mm (10 x 10 mm)	Snap-in
		Center push: 3.136 N			
STTSKQADB	SKQADB	1,568 N	1 x 10 ⁵ each direction	H = 8.6 mm (10 x 10 mm)	SMD
		Center push: 3.136 N			

Note: STEM colour: Black, Ratings (max.): 50mA 12VDC

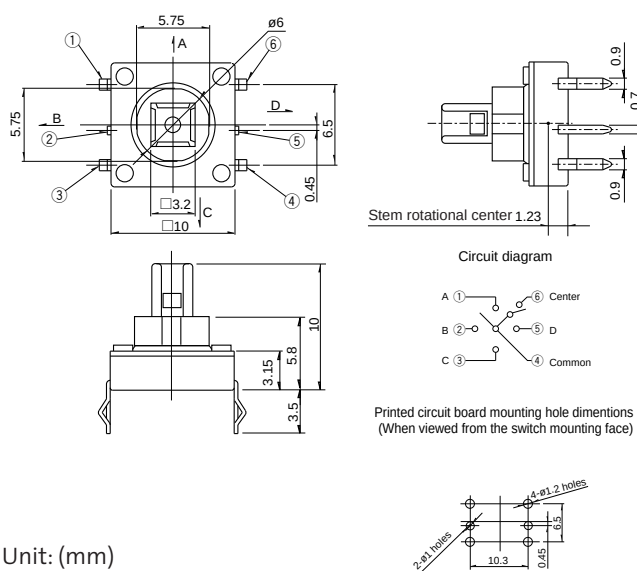
SKQUAA



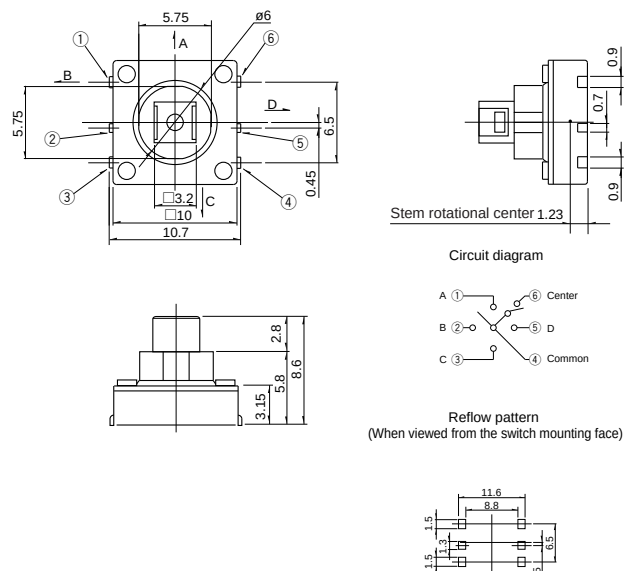
SKQUBA



SKQUCA



SKQADB

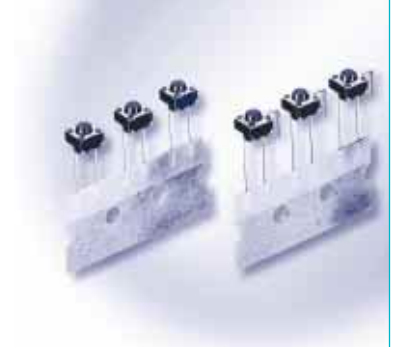


Unit: (mm)

Tact Switches

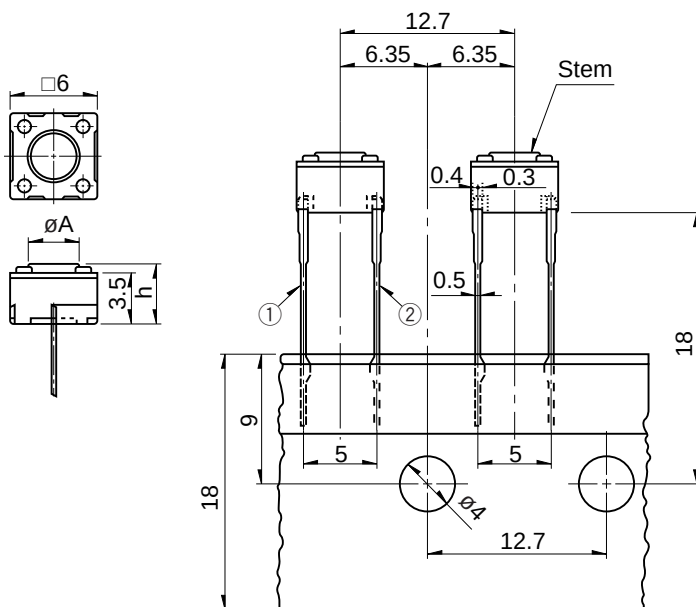
Metal Contact (Standard Bulk Type)

17



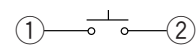
Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKHVBA	SKHVBA	0.980 N	10 ⁶ cycles	H= 4.3 mm (6 x 6 mm)
STTSKHVBB	SKHVBB	1.586 N	5 x 10 ⁵ cycles	H= 4.3 mm (6 x 6 mm)
STTSKHVBC	SKHVBC	2.548 N	2 x 10 ⁵ cycles	H= 4.3 mm (6 x 6 mm)
STTSKHVBD	SKHVBD	0.980 N	10 ⁶ cycles	H= 5 mm (6 x 6 mm)
STTSKHVBE	SKHVBE	1.568 N	5 x 10 ⁵ cycles	H= 5 mm (6 x 6 mm)
STTSKHVBF	SKHVBF	2.548 N	2 x 10 ⁵ cycles	H= 5 mm (6 x 6 mm)
STTSKHVBK	SKHVBK	0.980 N	10 ⁶ cycles	H= 7 mm (6 x 6 mm)
STTSKHVBL	SKHVBL	1.568 N	5 x 10 ⁵ cycles	H= 7 mm (6 x 6 mm)
STTSKHVBM	SKHVBM	2.548 N	2 x 10 ⁵ cycles	H= 7 mm (6 x 6 mm)
STTSKHVBG	SKHVBG	0.980 N	10 ⁶ cycles	H= 9.5 mm (6 x 6 mm)
STTSKHVBH	SKHVBH	1.568 N	5 x 10 ⁵ cycles	H= 9.5 mm (6 x 6 mm)
STTSKHVBJ	SKHVBJ	2.548 N	2 x 10 ⁵ cycles	H= 9.5 mm (6 x 6 mm)

SKHV Series
Standard Type

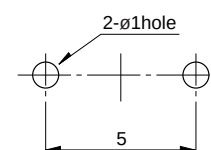


h	A
4.3	3.5
5	3.5
7	3.3
9.5	3

Circuit Diagram



Printed Circuit board
mounting hole dimensions
(When viewed from
switch mounting face)



It is suggested to use
a P.C. board of 1.6 mm thick.

Unit: (mm)

Tact Switches

Metal Contact (Standard Bulk Type)

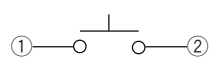


Order Number	Model	Operating Force	Life (Cycles)	Stem color	Stem height
STTSKQNAA	SKQNAA	0.98 N	5 x 10 ⁵ cycles	Black	h = 4.3 mm
STTSKQNAB	SKQNAB	1.568 N	5 x 10 ⁵ cycles	White	h = 4.3 mm
STTSKQNAC	SKQNAC	2.548 N	2 x 10 ⁵ cycles	Gray	h = 4.3 mm
STTSKQNAD	SKQNAD	0.98 N	5 x 10 ⁵ cycles	Black	h = 5 mm
STTSKQNAE	SKQNAE	1.568 N	5 x 10 ⁵ cycles	White	h = 5 mm
STTSKQNAF	SKQNAF	2.548 N	2 x 10 ⁵ cycles	Gray	h = 5 mm
STTSKQNAH	SKQNAH	0.98 N	5 x 10 ⁵ cycles	Black	h = 7 mm
STTSKQNAJ	SKQNAJ	1.568 N	5 x 10 ⁵ cycles	White	h = 7 mm
STTSKQNAK	SKQNAK	2.548 N	2 x 10 ⁵ cycles	Gray	h = 7 mm
STTSKQNAL	SKQNAL	0.98 N	5 x 10 ⁵ cycles	Black	h = 9.5 mm
STTSKQNAM	SKQNAM	1.568 N	5 x 10 ⁵ cycles	White	h = 9.5 mm
STTSKQNAN	SKQNAN	2.548 N	2 x 10 ⁵ cycles	Gray	h = 9.5 mm

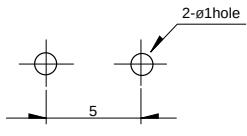
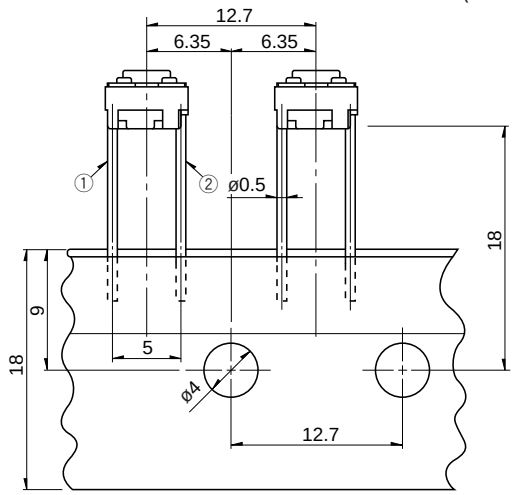
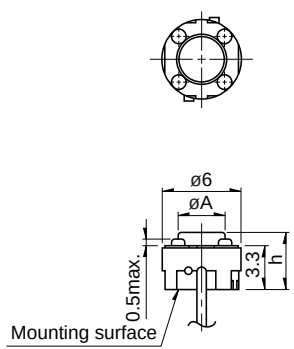
SKQN Series

h	A
4.3	3.4
5	3.4
7	3.2
9.5	2.9

Circuit diagram



Printed circuit board mounting hole dimensions
(When viewed from the switch mounting face)



Tact Switches

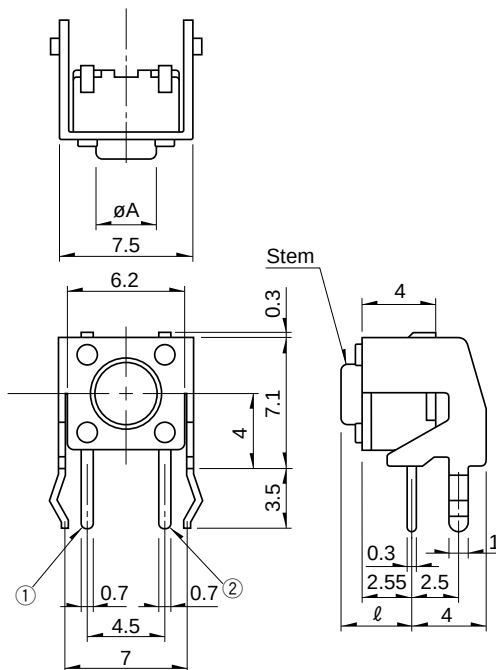
Metal Contact (Standard Bulk Type)



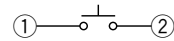
Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKHHLM	SKHHLM	0.980 N	10 ⁶ cycles	L= 3.85 mm (6 x 6 mm)
STTSKHHLN	SKHHLN	1.568 N	5 x 10 ⁵ cycles	L= 3.85 mm (6 x 6 mm)
STTSKHHL P	SKHHLP	2.548 N	2 x 10 ⁵ cycles	L= 3.85 mm (6 x 6 mm)
STTSKHHLQ	SKHHLQ	0.980 N	10 ⁶ cycles	L= 8.35 mm (6 x 6 mm)
STTSKHHLR	SKHHLR	1.568 N	5 x 10 ⁵ cycles	L= 8.35 mm (6 x 6 mm)
STTSKHHL S	SKHHLS	2.548 N	2 x 10 ⁵ cycles	L= 8.35 mm (6 x 6 mm)
STTSKHHLU	SKHHLU	0.980 N	10 ⁶ cycles	L= 5.85 mm (6 x 6 mm)
STTSKHHLV	SKHHLV	1.568 N	5 x 10 ⁵ cycles	L= 5.85 mm (6 x 6 mm)
STTSKHHLW	SKHHLW	2.548 N	2 x 10 ⁵ cycles	L= 5.85 mm (6 x 6 mm)

SKHHL Series

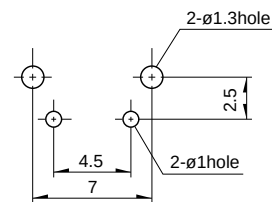
Vertical Type



Circuit diagram



Printed circuit board mounting hole dimensions
(When viewed from switch mounting face)



It is suggested to use a
P.C.Board of 1.6mm thick.

Unit: (mm)

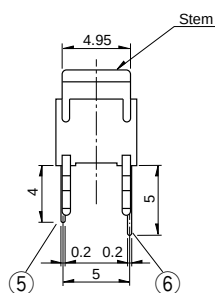
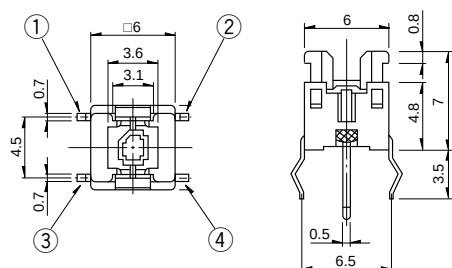
Tact Switches

Metal Contact with LED

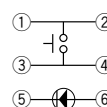


Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKHQFF	SKHQFF	1.568 N	5×10^4	with LED: red (6 x 6 mm)
STTSKHJGE	SKHJGE	2.548 N	2×10^5	with LED: red (8 x 8 mm)
STTSKECFK	SKECFK	0.784 N	1×10^5	with LED: red (8 x 8 mm)
STTSKECFL	SKECFL	0.784 N	1×10^5	with LED: pure green (8 x 8 mm)
STTSKECFS	SKECFS	0.784 N	1×10^5	with LED: amber (8 x 8 mm)

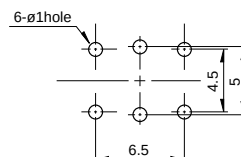
SKHQ Series With LED Type



Circuit diagram

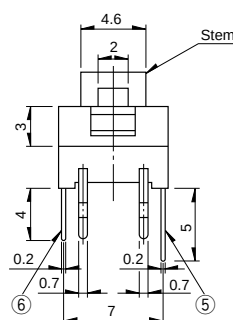
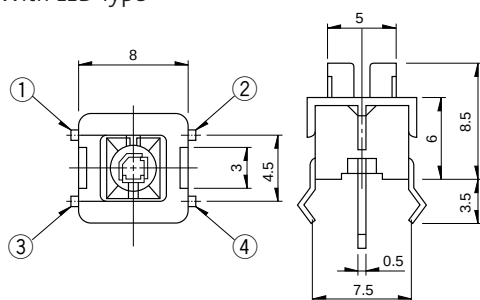


Printed circuit board
mounting hole dimensions
(When viewed from the
switch mounting face)

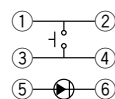


It is suggested to use
a P.C.Board of 1.6mm thick.

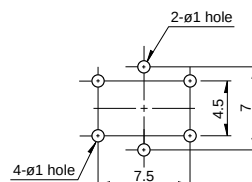
SKHJ Series With LED Type



Circuit diagram

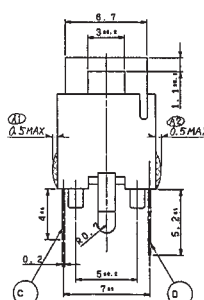
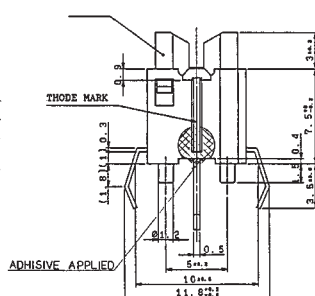
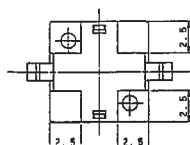
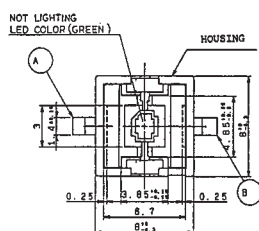


Printed circuit board
mounting hole dimensions
(When viewed from the
switch mounting face)

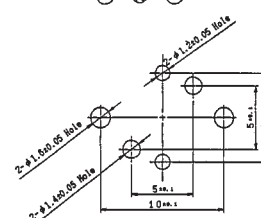
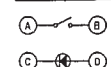


It is suggested to use
a P.C.Board of 1.6mm thick.

SKEC Series With LED Type



CIRCUIT DIAGRAM



Unit: (mm)

Tact Switches

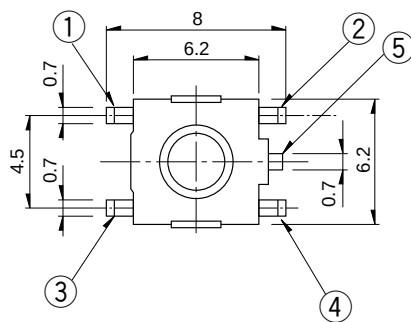
Mechanical Contact (SMD Type)



Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKHMP5	SKHMP5	0.980 N	5 x 10 ⁵	H= 3.1 mm (6 x 6 mm)
STTSKHMPW	SKHMPW	1.568 N	3 x 10 ⁵	H= 3.1 mm (6 x 6 mm)
STTSKHMPU	SKHMPU	2.352 N	2 x 10 ⁵	H= 3.1 mm (6 x 6 mm)
STTSKHUAB	SKHUAB	0.980 N	3 x 10 ⁵	H= 2.5 mm (6 x 6 mm)
STTSKHUAD	SKHUAD	1.568 N	3 x 10 ⁵	H= 2.5 mm (6 x 6 mm)
STTSKHUAF	SKHUAF	2.548 N	10 ⁵	H= 2.5 mm (6 x 6 mm)

SKHM Series

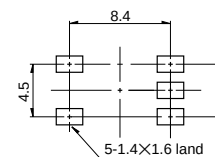
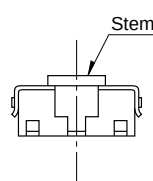
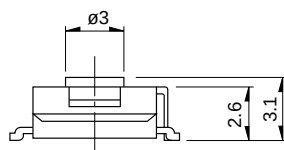
Reflow Soldering Type



Circuit diagram

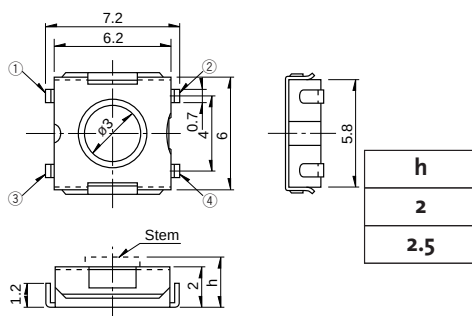


Printed circuit board land dimensions
(When viewed from the switch mounting face)

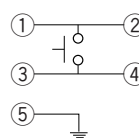


SKHU Series

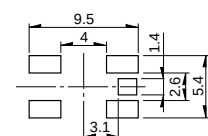
Reflow Soldering Type



Circuit diagram



Printed circuit board land dimensions
(When viewed from switch mounting face)



Unit: (mm)

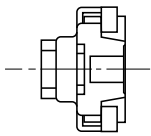
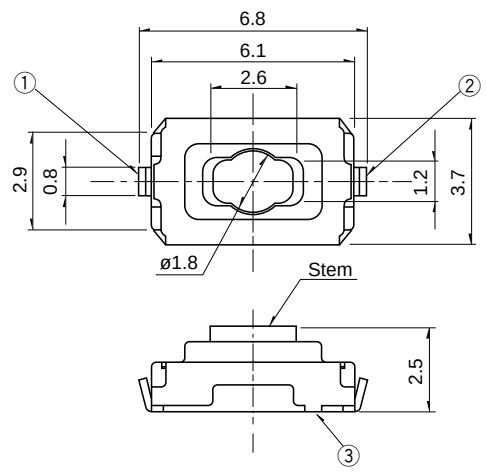
Tact Switches

Mechanical Contact (SMD Type)

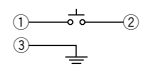


Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKQYAA	SKQYAA	1.568 N	5 x 10 ⁴	H= 2.5 mm (3.7 x 6.1 mm)
STTSKQYAB	SKQYAB	2.548 N	5 x 10 ⁴	H= 2.5 mm (3.7 x 6.1 mm)
STTSKQYAC	SKQYAC	0.98 N	5 x 10 ⁴	H= 2.5 mm (3.7 x 6.1 mm)

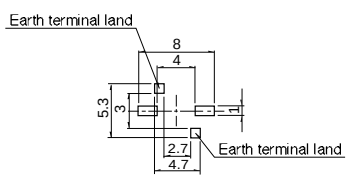
SKQYA Series



Circuit diagram



Printed circuit board land dimensions
(When viewed from the switch mounting face)



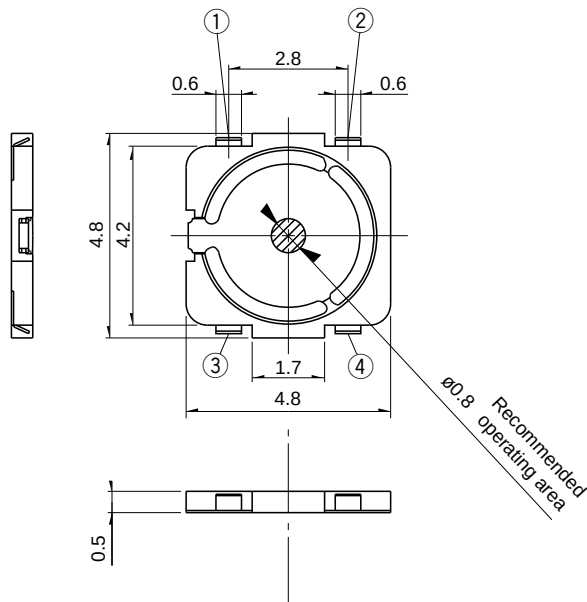
Tact Switches

Metal Contact

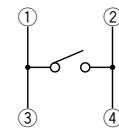


Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKQRAA	SKQRAA	1.568 N	5 x 10 ⁵ cycles	Height = 0,5 mm
STTSKQRAC	SKQRAC	2.352 N	5 x 10 ⁴ cycles	Height = 0,5 mm

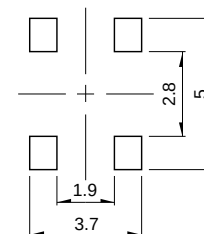
SKQRA Series



Circuit diagram



Printed circuit board land dimensions
(When viewed from the switch mounting face)



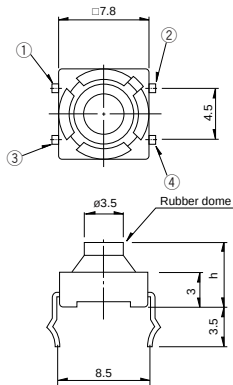
Tact Switches

Elastic Contact (Standard Bulk Type)

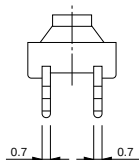


Order Number	Model	Operating Force (N)	Life (Cycles)	Dimensions (mm)
STTSKEYAG	SKEYAG	0.784 N	5×10^5	H= 5 mm (8 x 8 mm)
STTSKEYAF	SKEYAF	1.176 N	3×10^5	H= 5 mm (8 x 8 mm)
STTSKEYAC	SKEYAC	2.450 N	10^5	H= 5.5 mm (8 x 8 mm)
STTSKPEAA	SKPEAA	2.450 N	5×10^4	H= 5 mm (6.3 x 6.6 mm)
STTSKPGAA	SKPGAA	2.450 N	5×10^4	H= 5 mm (6.3 x 6.6 mm)
STTSKPGAC	SKPGAC	1.176 N	5×10^4	H= 5 mm (6.3 x 6.6 mm)

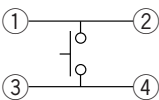
SKEY Series



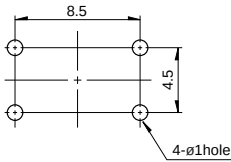
h
5
5.5



Circuit diagram

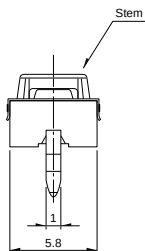
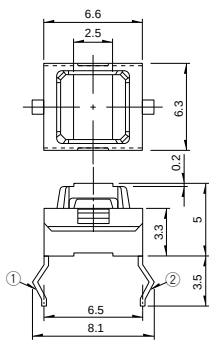


Printed circuit board mounting hole dimensions
(When viewed from the switch mounting face)

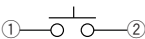


It is suggested to use
a P.C. Board of 1.6mm thick.

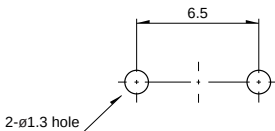
SKPE Series



Circuit diagram

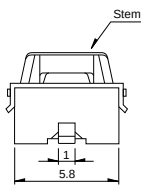
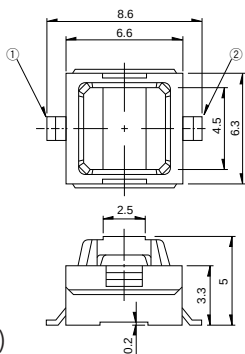


Printed circuit board mounting hole dimensions
(When viewed from the switch mounting face)

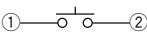


It is suggested to use
a P.C. Board of 1.6mm thick.

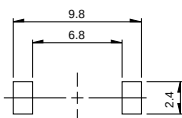
SKPG Series



Circuit diagram



Printed circuit board mounting hole dimensions
(When viewed from the switch mounting face)



It is suggested to use
a P.C. Board of 1.6mm thick.

Unit: (mm)

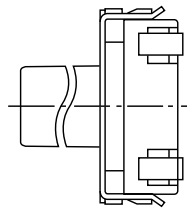
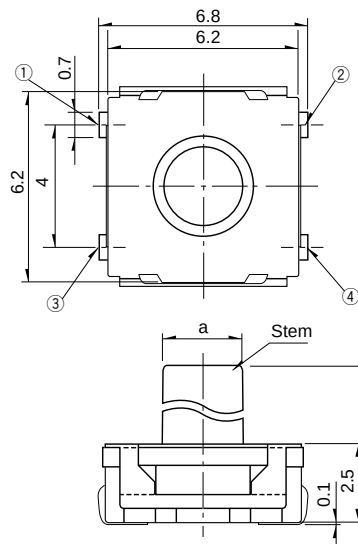
Tact Switches

Elastic Contact (with LED)

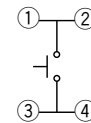


Order Number	Model	Operating Force (N)	Lifetime (Cycles)	Travel	Dimensions (mm)	Actuator Material
STTSKRAAA	SKRAAA	3.0 N	5×10^5	0.35 mm	H = 3.4 mm	Silicone
STTSKRAAB	SKRAAB	4.5 N	3×10^5	0.40 mm	H = 3.4 mm	Silicone
STTSKRAAC	SKRAAC	2.0 N	1×10^6	0.50 mm	H = 5.1 mm	Silicone
STTSKRAAD	SKRAAD	3.5 N	5×10^5	0.75 mm	H = 5.1 mm	Silicone

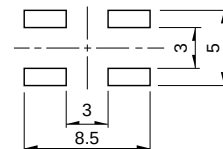
SKRA Series



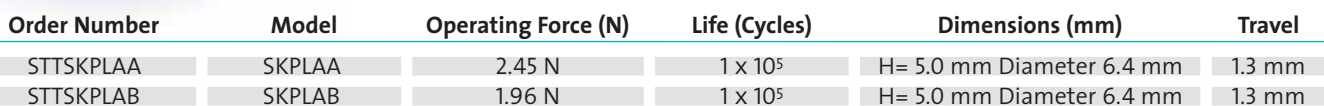
Circuit diagram



Printed circuit board land dimension
(When viewed from the switch mounting face)



h (mm)	3.4	5.1
a (mm)	ø3	ø2.6



Technical drawing showing a cross-section of a mechanical assembly. The drawing includes a top view (left) and a side view (right). The top view shows a circular component with a central hole of diameter $\varnothing 4.55$ and an outer diameter of $\varnothing 6.45$. The side view shows two vertical components, labeled 1 and 2, mounted on a base. The base has a total height of 18 and a central hole of diameter $\varnothing 4$. The distance between the centers of the two vertical components is 12.7. The distance from the center of the base hole to the center of each vertical component is 6.35. The vertical components have a diameter of $\varnothing 0.5$. The base has a thickness of 3.5 and a width of 5. The vertical components have a height of 12.7. The distance from the base to the top of the vertical components is 9.

5

2-ø0.9 hole

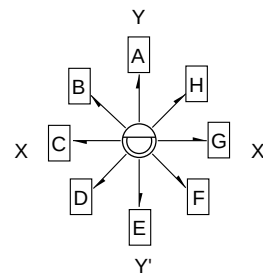
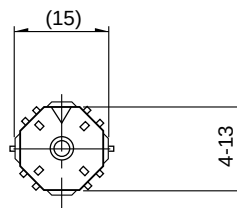
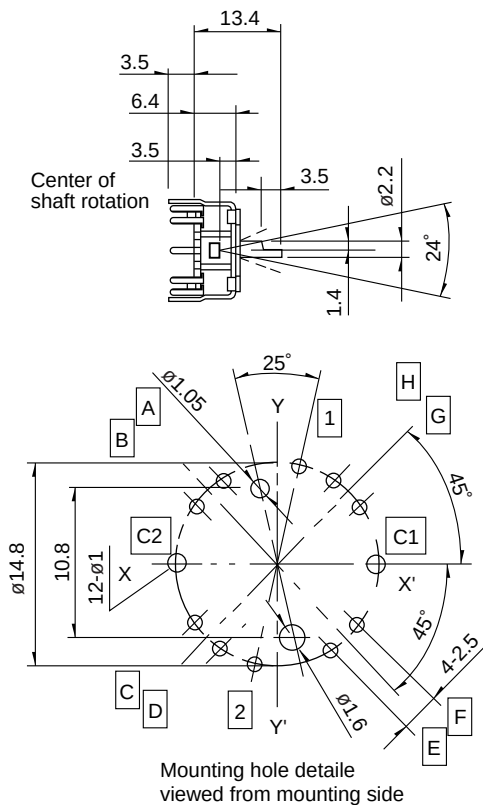
Compact Stick Switch



Order Number	Model	Switch ratings	Contact resistance lever/ push operation	Insulation resistance	Voltage proof	Operating life
STRKJXL01	RKJXL	DC5V10mA	500m/500m Ω max.	100M Ω min. at 250V DC	300V AC for 1 minute	100,000 cycles

Features: 8 - direction switcher with push-on selector sw
(Version without push-on switch is also available)

RKJXL

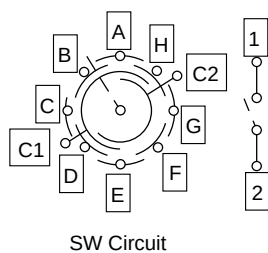


The following terminals conduct according to the operational direction of the shaft.
(Adjoining terminals have a shorting zone)

C1	A	B	C	D
C2	E	F	G	H

H	A	D	E
C1	C2		
1	2		

(C1) and (C2) conduct between (H)-(A) and (D)-(E).
(1)-(2) conduct by push- on operation.



Rotary Potentiometer



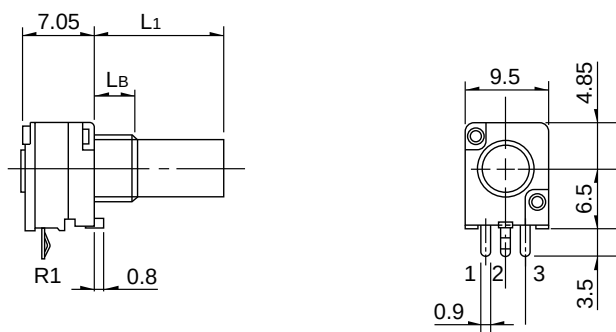
Order Number	Size (mm)	Number of Elements	Resistance Value (kΩ)	Taper	Shaft length (mm)	Tap	Mounting height (mm)	Uses	Rest of Specification
STRK09701	9 mm	Single Unit	10 kΩ	A= Logarithmic	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09702	9 mm	Single Unit	50 kΩ	A= Logarithmic	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09703	9 mm	Single Unit	100 kΩ	A= Logarithmic	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09704	9 mm	Single Unit	10 kΩ	B= Linear	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09705	9 mm	Single Unit	50 kΩ	B= Linear	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09706	9 mm	Single Unit	100 kΩ	B= Linear	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09707	9 mm	Dual Unit	2x10 kΩ	A= Logarithmic	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09708	9 mm	Dual Unit	2x50 kΩ	A= Logarithmic	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09709	9 mm	Dual Unit	2x100 kΩ	A= Logarithmic	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09710	9 mm	Dual Unit	2x10 kΩ	B= Linear	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09711	9 mm	Dual Unit	2x50 kΩ	B= Linear	25 mm	No Tap	6.5 mm	AC-Use	Standard
STRK09712	9 mm	Dual Unit	2x100 kΩ	B= Linear	25 mm	No Tap	6.5 mm	AC-Use	Standard

Standard Specifications:

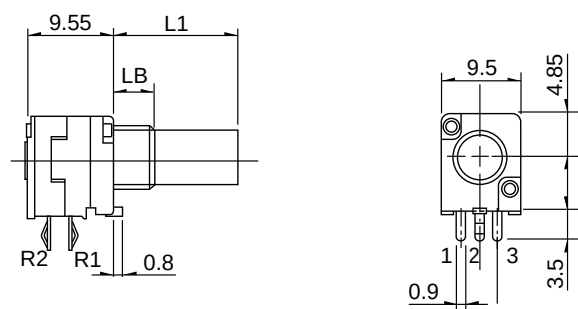
Rotational Life: 15000 Cycles
 Rotational Angle: 300 +/- 5 Degrees
 Rotational Torque: 30 - 250 gf/cm
 Resistance Tolerance: +/- 20%
 Rated Power: 0.05 W
 max. Operating Voltage (DC): DC 10 V
 max. Operating Voltage (AC): AC 50 V
 Insulation Resistance: 100 MΩ min. at 500 V DC

Number of Shafts: Single Shaft
 Details: Horizontal Type
 Shaft Style: Slotted
 Terminals: Printed Wiring
 Detents: No Detent
 Attachment: No

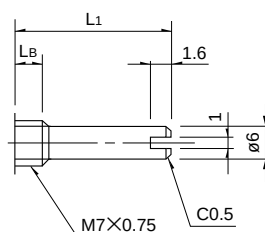
RK097 Series Single Unit



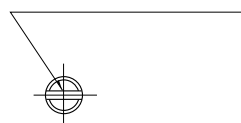
Dual Unit



Slotted Type



Not specified slotting angle.



Unit: (mm)

Rotary Potentiometer



Order Number	Size (mm)	Number of Elements	Resistance Value (k Ω)	Taper	Shaft length (mm)	Tap	Mounting height (mm)	Uses	Rest of Specification
STRK16301	16 mm	Single Unit	10 k Ω	A= Logarithmic	30 mm	No Tap	12.5 mm	AC-Use	Standard
STRK16302	16 mm	Single Unit	50 k Ω	A= Logarithmic	30 mm	No Tap	12.5 mm	AC-Use	Standard
STRK16303	16 mm	Single Unit	100 k Ω	A= Logarithmic	30 mm	No Tap	12.5 mm	AC-Use	Standard
STRK16304	16 mm	Single Unit	10 k Ω	B= Linear	30 mm	No Tap	12.5 mm	AC-Use	Standard
STRK16305	16 mm	Single Unit	50 k Ω	B= Linear	30 mm	No Tap	12.5 mm	AC-Use	Standard
STRK16306	16 mm	Single Unit	100 k Ω	B= Linear	30 mm	No Tap	12.5 mm	AC-Use	Standard
STRK16307	16 mm	Dual Unit	2x10 k Ω	A= Logarithmic	30 mm	No Tap	12.5 mm	Volume Control	Standard
STRK16308	16 mm	Dual Unit	2x50 k Ω	A= Logarithmic	30 mm	No Tap	12.5 mm	Volume Control	Standard
STRK16309	16 mm	Dual Unit	2x100 k Ω	A= Logarithmic	30 mm	No Tap	12.5 mm	Volume Control	Standard
STRK16310	16 mm	Dual Unit	2x10 k Ω	B= Linear	30 mm	No Tap	12.5 mm	Tone Control	Standard
STRK16311	16 mm	Dual Unit	2x50 k Ω	B= Linear	30 mm	No Tap	12.5 mm	Tone Control	Standard
STRK16312	16 mm	Dual Unit	2x100 k Ω	B= Linear	30 mm	No Tap	12.5 mm	Tone Control	Standard

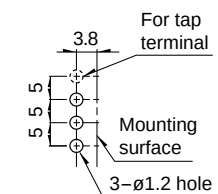
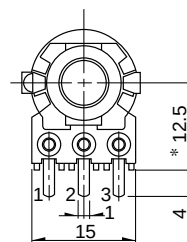
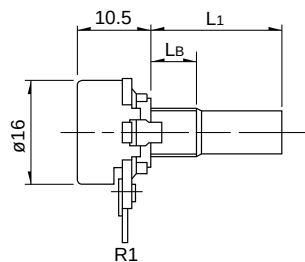
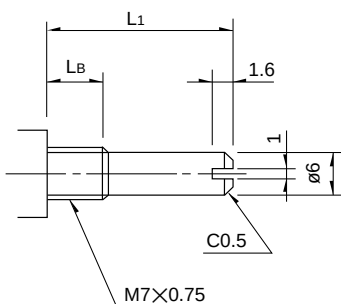
Standard Specifications:

Rotational Life: 15000 Cycles
 Rotational Angle: 300 +/- 5 Degrees
 Rotational Torque: 30 - 250 gf/cm
 Resistance Tolerance: +/- 20%
 Rated Power: 0.05 W - 0.1 W Depending on Taper
 max. Operating Voltage (DC): DC 20 V
 max. Operating Voltage (AC): AC 150 V
 Insulation Resistance: 100 M Ω min. at 500 V DC

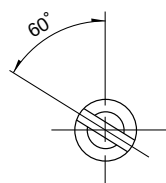
Number of Shafts: 1

Details: Horizontal Type
 Shaft Style: Slotted
 Terminals: Printed Wiring
 Detents: No Detent
 Attachment: No

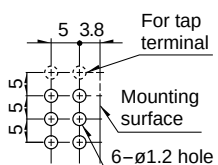
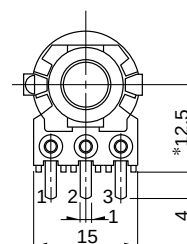
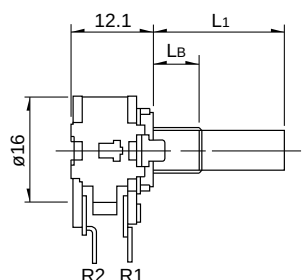
RK163 Series



Mounting hole detail viewed from mounting side



Shaft shown in full CCW position



Mounting hole detail viewed from mounting side

Unit: (mm)

Rotary Potentiometer

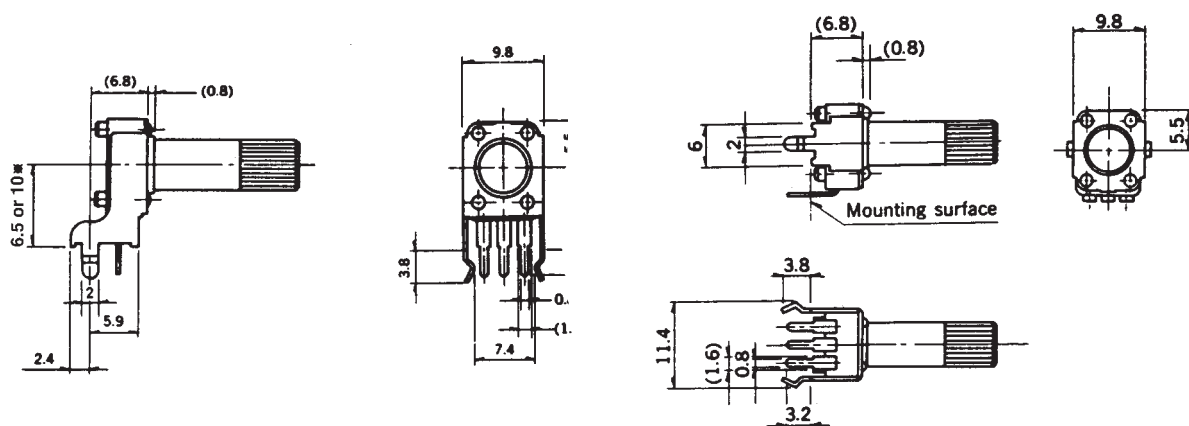


Order Number	Size (mm)	Number of Elements	Resistance Value (kΩ)	Taper	Shaft length (mm)	Shaft Style	Mounting height (mm)	Uses	Details
STRK09K01	9 mm	Single Unit	10 kΩ	B= Linear	25 mm	Knob	10 mm	AC-Use	Horizontal
STRK09K02	9 mm	Single Unit	50 kΩ	B= Linear	25 mm	Knob	10 mm	AC-Use	Horizontal
STRK09K03	9 mm	Single Unit	100 kΩ	B= Linear	25 mm	Knob	10 mm	AC-Use	Horizontal
STRK09K04	9 mm	Single Unit	10 kΩ	A= Logarithmic	25 mm	Knob	10 mm	AC-Use	Horizontal
STRK09K05	9 mm	Single Unit	50 kΩ	A= Logarithmic	25 mm	Knob	10 mm	AC-Use	Horizontal
STRK09K06	9 mm	Single Unit	100 kΩ	A= Logarithmic	25 mm	Knob	10 mm	AC-Use	Horizontal
STRK09K07	9 mm	Single Unit	10 kΩ	B= Linear	25 mm	Knob	Vertical	AC-Use	Vertical
STRK09K08	9 mm	Single Unit	50 kΩ	B= Linear	25 mm	Knob	Vertical	AC-Use	Vertical
STRK09K09	9 mm	Single Unit	100 kΩ	B= Linear	25 mm	Knob	Vertical	AC-Use	Vertical
STRK09K10	9 mm	Single Unit	10 kΩ	A= Logarithmic	25 mm	Knob	Vertical	AC-Use	Vertical
STRK09K11	9 mm	Single Unit	50 kΩ	A= Logarithmic	25 mm	Knob	Vertical	AC-Use	Vertical
STRK09K12	9 mm	Single Unit	100 kΩ	A= Logarithmic	25 mm	Knob	Vertical	AC-Use	Vertical
STRK09K13	9 mm	Dual Unit	2x10 kΩ	B= Linear	20 mm	Knob	6.5 mm	AC-Use	Horizontal
STRK09K14	9 mm	Dual Unit	2x50 kΩ	B= Linear	20 mm	Knob	6.5 mm	AC-Use	Horizontal
STRK09K15	9 mm	Dual Unit	2x100 kΩ	B= Linear	20 mm	Knob	6.5 mm	AC-Use	Horizontal
STRK09K16	9 mm	Dual Unit	2x10 kΩ	A= Logarithmic	20 mm	Knob	6.5 mm	AC-Use	Horizontal
STRK09K17	9 mm	Dual Unit	2x50 kΩ	A= Logarithmic	20 mm	Knob	6.5 mm	AC-Use	Horizontal
STRK09K18	9 mm	Dual Unit	2x100 kΩ	A= Logarithmic	20 mm	Knob	6.5 mm	AC-Use	Horizontal
STRK09K19	9 mm	Dual Unit	2x10 kΩ	B= Linear	20 mm	Knob	Vertical	AC-Use	Vertical
STRK09K20	9 mm	Dual Unit	2x50 kΩ	B= Linear	20 mm	Knob	Vertical	AC-Use	Vertical
STRK09K21	9 mm	Dual Unit	2x100 kΩ	B= Linear	20 mm	Knob	Vertical	AC-Use	Vertical
STRK09K22	9 mm	Dual Unit	2x10 kΩ	A= Logarithmic	20 mm	Knob	Vertical	AC-Use	Vertical
STRK09K23	9 mm	Dual Unit	2x50 kΩ	A= Logarithmic	20 mm	Knob	Vertical	AC-Use	Vertical
STRK09K24	9 mm	Dual Unit	2x100 kΩ	A= Logarithmic	20 mm	Knob	Vertical	AC-Use	Vertical

Standard Specifications:

Rotational Life:	Single Unit: 5000 Cycles	Dual Unit: 10000 Cycles	Number of Shafts: 1
Rotational Angle:	280 +/- 5 Degrees	280 +/- 5 Degrees	Terminals: Printed Wiring
Rotational Torque:	10 - 80 gf/cm	10 - 80 gf/cm	Detents: No Detent
Resistance Toleranz:	20% +/-	20% +/-	Attachment: No
Rated Power:	0.05 W Single Unit	0.03 W Dual Unit	Tap: No
max. Operating Voltage (DC):	DC 20 V	DC 0 V	
max. Operating Voltage (AC):	AC 50 V	AC 50 V	
Insulation Resistance:	100 M Ω min. at 250 V DC	100 M Ω min at 250 V DC	

RK09K Series



Unit: (mm)

Number of Shafts: 1
Bushing: with Collar
Terminals: Printed Wiring
Detents: No Detent
Attachement: No
Tap: No

Unit: (mm)

Rotary Potentiometer



Order Number	Size (mm)	Number of Elements	Resistance Value (k Ω)	Taper	Shaft length (mm)	Shaft Style	Mounting height (mm)	Uses	Details
STRK11K01	11 mm	Single Unit	10 k Ω	B= Linear	20 mm	Flat	12.5 mm	AC-Use	Horizontal
STRK11K02	11 mm	Single Unit	50 k Ω	B= Linear	20 mm	Flat	12.5 mm	AC-Use	Horizontal
STRK11K03	11 mm	Single Unit	100 k Ω	B= Linear	20 mm	Flat	12.5 mm	AC-Use	Horizontal
STRK11K04	11 mm	Single Unit	10 k Ω	A= Logarithmic	20 mm	Flat	12.5 mm	AC-Use	Horizontal
STRK11K05	11 mm	Single Unit	50 k Ω	A= Logarithmic	20 mm	Flat	12.5 mm	AC-Use	Horizontal
STRK11K06	11 mm	Single Unit	100 k Ω	A= Logarithmic	20 mm	Flat	12.5 mm	AC-Use	Horizontal
STRK11K07	11 mm	Single Unit	10 k Ω	B= Linear	20 mm	Flat	Vertical	AC-Use	Vertical
STRK11K08	11 mm	Single Unit	50 k Ω	B= Linear	20 mm	Flat	Vertical	AC-Use	Vertical
STRK11K09	11 mm	Single Unit	100 k Ω	B= Linear	20 mm	Flat	Vertical	AC-Use	Vertical
STRK11K10	11 mm	Single Unit	10 k Ω	A= Logarithmic	20 mm	Flat	Vertical	AC-Use	Vertical
STRK11K11	11 mm	Single Unit	50 k Ω	A= Logarithmic	20 mm	Flat	Vertical	AC-Use	Vertical
STRK11K12	11 mm	Single Unit	100 k Ω	A= Logarithmic	20 mm	Flat	Vertical	AC-Use	Vertical

Standard Specifications:

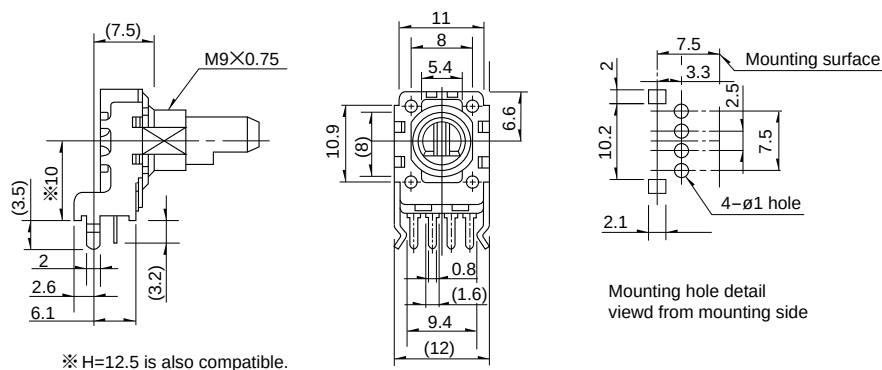
Rotational Life:	15000 Cycles
Rotational Angle:	300 $\pm$ 5 Degrees
Rotational Torque:	30 - 200 gf/cm
Resistance Tolerance:	$\pm$ 20%
Rated Power:	0.05 W
max. Operating Voltage (DC):	DC 20 V
max. Operating Voltage (AaC):	AC 50 V
Insulation Resistance:	100 M Ω min. at 500 V DC
Tap:	No

Number of Shafts: 1

Details:	Horizontal Type/Vertical Type
Shaft Style:	Flat
Terminals:	Printed Wiring
Detents:	No Detent
Attachement:	No
with bushing:	M9x0.75

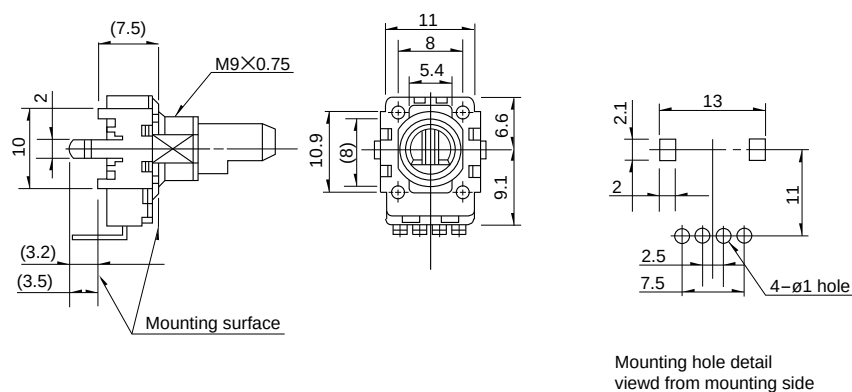
RK11K Series

Horizontal Type



RK11K Series

Vertical Type



Rotary Potentiometer



Order Number	Size (mm)	Number of Elements	Resistance Value (kΩ)	Taper	Shaft length (mm)	Tap	Mounting height (mm)	Uses	Rest of Specification
STRK27101	27 mm	Dual Unit	2x10 kΩ	A= Logarithmic	20 mm	No Tap	12.5 mm	AC-Use	Standard
STRK27102	27 mm	Dual Unit	2x20 kΩ	A= Logarithmic	20 mm	No Tap	12.5 mm	AC-Use	Standard
STRK27103	27 mm	Dual Unit	2x50 kΩ	A= Logarithmic	20 mm	No Tap	12.5 mm	AC-Use	Standard
STRK27104	27 mm	Dual Unit	2x100 kΩ	A= Logarithmic	20 mm	No Tap	12.5 mm	AC-Use	Standard

Motor version is also available
Standard Specifications:

Rotational Life: 15000 Cycles
Gang Error (-60dB to 0 dB = 2 dB max)
Rotational Angle: 300 ± 3 Degrees
Rotational Torque: 80 - 350 gf/cm
Resistance Tolerance: ± 20%

Rated Power:

max. Operating Voltage (DC):
max. Operating Voltage (AC):

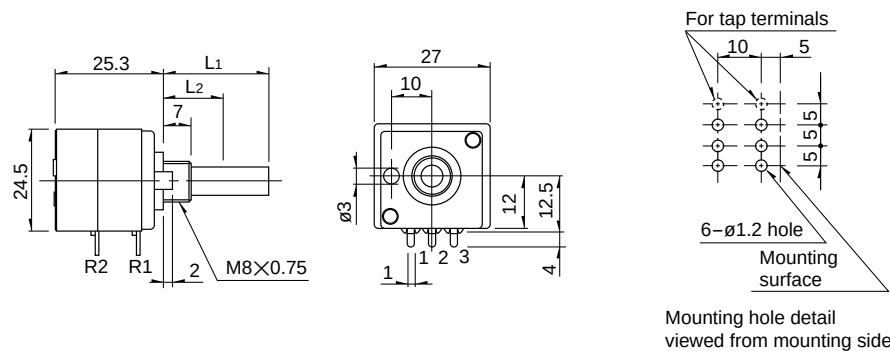
Insulation Resistance: 100 MΩ min. at 500 V DC

0.05 W - 0.1 W
Depending on Taper

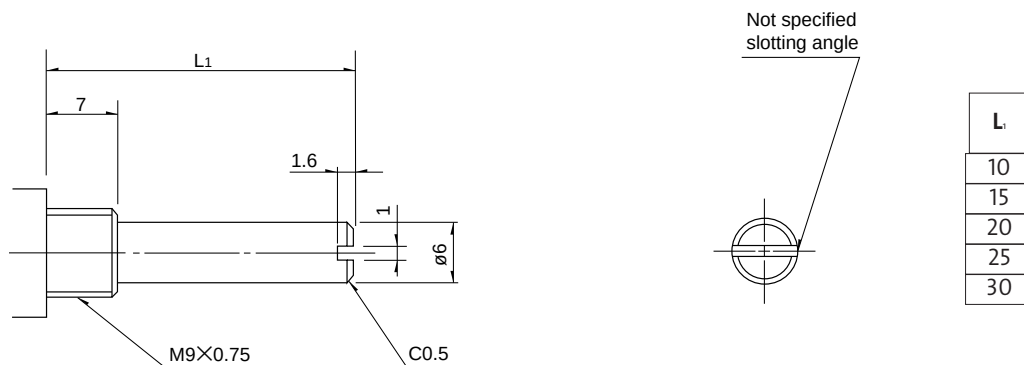
Number of Shafts:

Details: 1
Shaft Style: Horizontal Type
Terminals: Slotted
Detents: Printed Wiring
Attachment: No

RK27 Series



Slotted Type



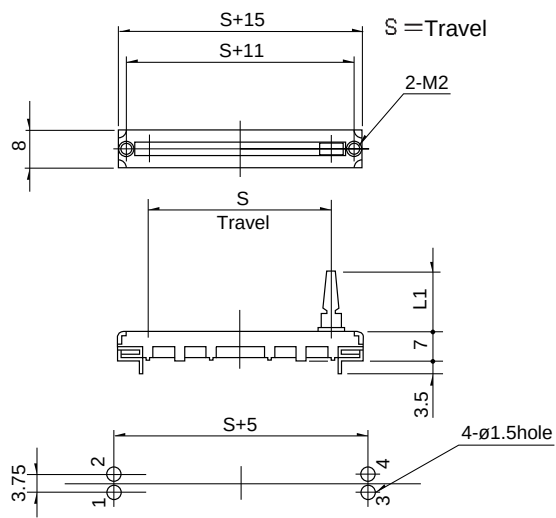
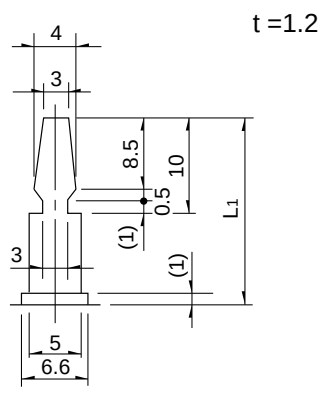


Order Number	Travel of lever (mm)	Number of Elements	Resistance Value (kΩ)	Taper	Lever lenght (mm)	Tap	Terminal	Uses	Rest of Specification
STRS30101	30 mm	Single Unit	10 kΩ	B= Linear	20 mm	No Tap	Printed Wiring	AC-Use	Standard
STRS30102	30 mm	Single Unit	50 kΩ	B= Linear	20 mm	No Tap	Printed Wiring	AC-Use	Standard
STRS30103	30 mm	Single Unit	100 kΩ	B= Linear	20 mm	No Tap	Printed Wiring	AC-Use	Standard

Standard Specifications:
Sliding Life: 15000 Cycles
Resistance Tolerance: 20% ±
Rated Power: 0,025 - 0,2W Depending on Type and Taper
Max. Operating Voltage (AC): 50 - 200V Depending on Type and Taper
Insulation Resistance: 100 MΩ at 250 VDC

Number of Levers: 1
Details: Vertical Type
Detents: No Detent
Attachement: No

RS30 Series

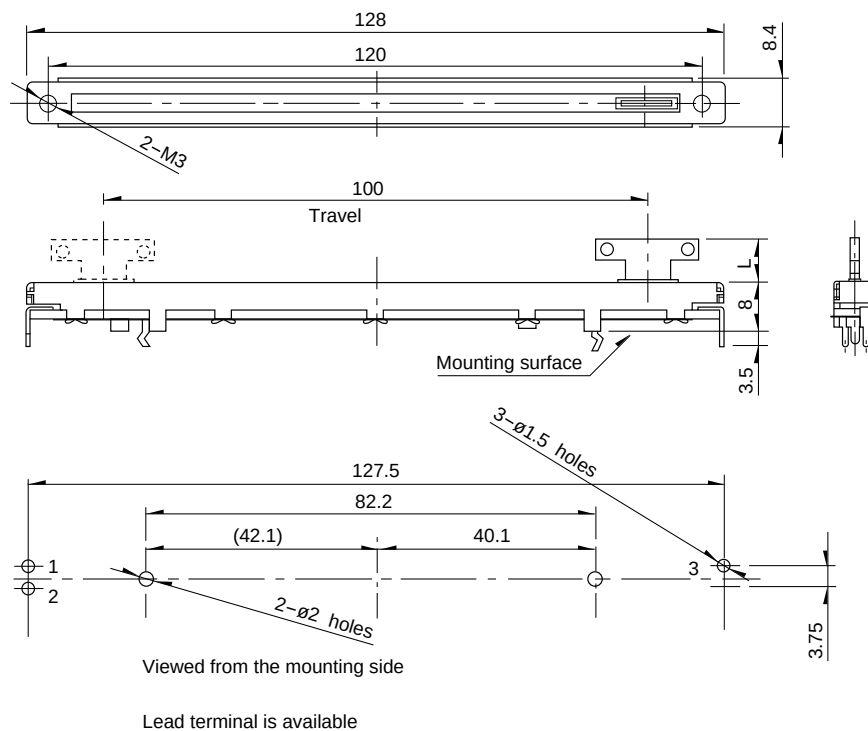


Slide Potentiometer



Order Number	Travel of lever (mm)	Number of Elements	Resistance Value (k Ω)	Taper	Lever length (mm)	Lever	Uses	Rest of Specification
STRSA0N11S	100	single	10 k Ω	A= Logarithmic	8.2	T-Bar	AC-Use	Printed wiring terminals
STRSA0N12S	100	single	10 k Ω	B= Linear	8.2	T-Bar	AC-Use	Printed wiring terminals
STRS60N11S	60	single	10 k Ω	A= Logarithmic	8.2	T-Bar	AC-Use	Printed wiring terminals
STRS60N12S	60	single	10 k Ω	B= Linear	8.2	T-Bar	AC-Use	Printed wiring terminals

RSA0N11S Series Standard type



Slide Potentiometer



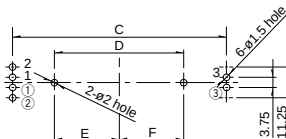
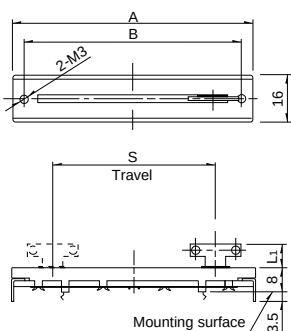
Order Number	Travel of lever (mm)	Number of Elements	Resistance Value (kΩ)	Taper	Lever length (mm)	Details	Lever Type	Uses	Rest of Specification
STRS60N01	60 mm	Single Unit	10 kΩ	A=Logarithmic	8.2 mm	Crank Lever	9-2 (T-Bar)	AC-Use	Standard
STRS60N02	60 mm	Single Unit	10 kΩ	B= Linear	8.2 mm	Crank Lever	9-2 (T-Bar)	AC-Use	Standard
STRS60N03	60 mm	Dual Unit	2x10 kΩ	A= Logarithmic	8.2 mm	Crank Lever	9-2 (T-Bar)	AC-Use	Standard
STRS60N04	60 mm	Dual Unit	2x10 kΩ	B= Linear	8.2 mm	Crank Lever	9-2 (T-Bar)	AC-Use	Standard
STRS60N05	60 mm	Single Unit	10 kΩ	A= Logarithmic	12 mm	Vertical	1	AC-Use	Standard
STRS60N06	60 mm	Single Unit	10 kΩ	B= Linear	12 mm	Vertical	1	AC-Use	Standard
STRS60N07	60 mm	Dual Unit	2x10 kΩ	A= Logarithmic	12 mm	Vertical	1	AC-Use	Standard
STRS60N08	60 mm	Dual Unit	2x10 kΩ	B= Linear	12 mm	Vertical	1	AC-Use	Standard
STRSA0N01	100 mm	Single Unit	10 kΩ	A= Logarithmic	8.2 mm	Crank Lever	9-2 (T-Bar)	AC-Use	Standard
STRSA0N02	100 mm	Single Unit	10 kΩ	B= Linear	8.2 mm	Crank Lever	9-2 (T-Bar)	AC-Use	Standard
STRSA0N03	100 mm	Dual Unit	2x10 kΩ	A= Logarithmic	8.2 mm	Crank Lever	9-2 (T-Bar)	AC-Use	Standard
STRSA0N04	100 mm	Dual Unit	2x10 kΩ	B= Linear	8.2 mm	Crank Lever	9-2 (T-Bar)	AC-Use	Standard
STRSA0N05	100 mm	Single Unit	10 kΩ	A= Logarithmic	12 mm	Vertical	1	AC-Use	Standard
STRSA0N06	100 mm	Single Unit	10 kΩ	B= Linear	12 mm	Vertical	1	AC-Use	Standard
STRSA0N07	100 mm	Dual Unit	2x10 kΩ	A= Logarithmic	12 mm	Vertical	1	AC-Use	Standard
STRSA0N08	100 mm	Dual Unit	2x10 kΩ	B= Linear	12 mm	Vertical	1	AC-Use	Standard

Sliding Life: 15000 Cycles
 Resistance Tolerance: 20% +/-
 Rated Power: 0,1 - 0,5 W Depending on Type and Fader
 Max. Operating Voltage AC: 150 - 500 V Depending on Type and Fader
 Insulation Resistance: 100 MΩ at 250 VDC

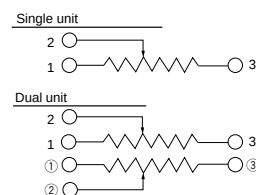
Detents: No Detent
 Attachment: No
 Terminals: Printed Wiring
 Tap: No

RS60N & RSA0N Series

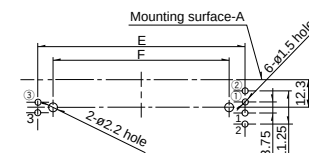
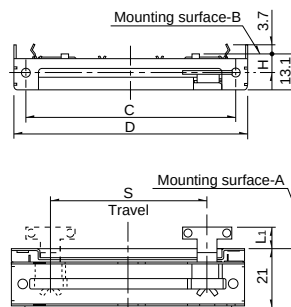
Configuration Code	9-2 (T-BAR)
Dimensions	
Length	8,2



Dimensions Model	S	A	B	C	D	E	F
RS60N	60	88	80	87.5	51.7	—	—
RSA0N	100	128	120	127.5	82.5	(43.7)	38.8

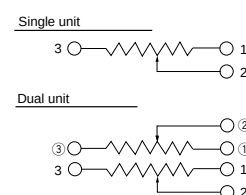


Configuration Code	1
Dimensions	
Length	12



Dimensions Model	S	C	D	E	F
RS60N	60	80	88	87.5	74
RSA0N	100	120	128	127.5	114

Mounting height : H = 6.5, 10



Unit: (mm)

Slide Potentiometer

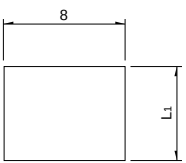


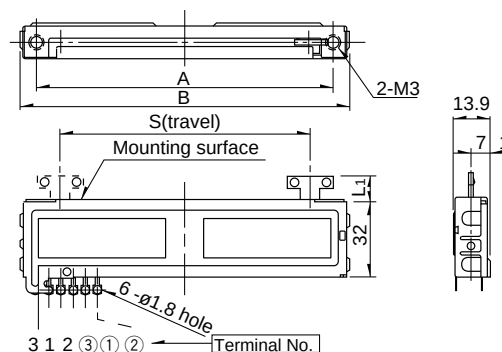
Order Number	Travel of lever (mm)	Number of Elements	Resistance Value (kΩ)	Taper	Lever length (mm)	Details	Lever Type	Uses	Rest of Specification
STRSAOK01	100	Single Unit	10 kΩ	A= Logarithmic	12 mm	Carbon Type	1	AC-Use	Standard
STRSAOK02	100	Single Unit	10 kΩ	B= Linear	12 mm	Carbon Type	1	AC-Use	Standard
STRSAOK03	100	Dual Unit	2x10 kΩ	A= Logarithmic	12 mm	Carbon Type	1	AC-Use	Standard
STRSAOK04	100	Dual Unit	2x10 kΩ	B= Linear	12 mm	Carbon Type	1	AC-Use	Standard
STRSAOK05	100	Single Unit	10 kΩ	A= Logarithmic	8.2 mm	Conductive Plastic*	9-2 (T-Bar)	AC-Use	Standard
STRSAOK06	100	Single Unit	10 kΩ	B= Linear	8.2 mm	Conductive Plastic*	9-2 (T-Bar)	AC-Use	Standard
STRSAOK07	100	Dual Unit	2x10 kΩ	A= Logarithmic	8.2 mm	Conductive Plastic*	9-2 (T-Bar)	AC-Use	Standard
STRSAOK08	100	Dual Unit	2x10 kΩ	B= Linear	8.2 mm	Conductive Plastic*	9-2 (T-Bar)	AC-Use	Standard
STRSAOK09	100	Single Unit	10 kΩ	A= Logarithmic	12 mm	Carbon Type*	1	AC-Use	Standard
STRSAOK10	100	Single Unit	10 kΩ	B= Linear	12 mm	Carbon Type*	1	AC-Use	Standard
STRSAOK11	100	Dual Unit	2x10 kΩ	A= Logarithmic	12 mm	Carbon Type*	1	AC-Use	Standard
STRSAOK12	100	Dual Unit	2x10 kΩ	B= Linear	12 mm	Carbon Type*	1	AC-Use	Standard

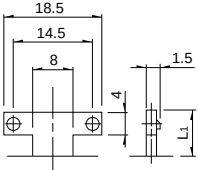
Sliding Life (Carbon Type): 100K Cycles
Sliding Life (Conductive Plastic): 300K Cycles
Resistance Tolerance: 20% +/-
Rated Power: 0,25 - 0,5 W Depending on Type and Fader
Max. Operating Voltage AC: 350V - 500V Depending on Type and Fader
Insulation Resistance: 100 MΩ min. at 250V DC

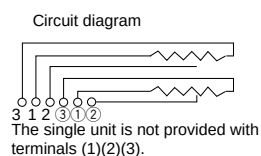
Detents: No Detent
Attachement: No
Terminals: Lead Wiring/Connector
Tap: No
*: With micro switch

RSAOK Series

Configuration Code	1
Dimensions	
Length	12



Configuration Code	9-2 (T-BAR)
Dimensions	
Length	8,2



Dimensions	S	A	B
Model			
RS60K	60	80	92.6
RSAOK	100	120	132.6

Unit: (mm)

NEW



Rest of Specification

Push-Lock Switch
0,5 A 12 VDC (1 mA MIN)
50 VDC 1 mA, 10 MOhm MIN
300 VAC
10000

Mounting hole detail
viewed from mounting side

Unit: (mm)

Rotary Encoder



Order Number	Size (mm)	Number of Pulses	Detents	Details	Shaft length (mm)	Shaft Style	Attachment	Rest of Specification
STEC11B01	11 mm	15	30	Horizontal Type	25 mm	Slotted	Push-On Switch 0,5 mm	Standard
STEC11B02	11 mm	15	30	Horizontal Type	25 mm	Slotted	No	Standard
STEC11B03	11 mm	15	30	Vertical Type	25 mm	Slotted	Push-On Switch 0,5 mm	Standard
STEC11B04	11 mm	15	30	Vertical Type	25 mm	Slotted	No	Standard
STEC11B05	11 mm	15	30	Horizontal Type	20 mm	Flat	Push-On Switch 0,5 mm	Standard
STEC11B06	11 mm	15	30	Horizontal Type	20 mm	Flat	No	Standard
STEC11B07	11 mm	15	30	Vertical Type	20 mm	Flat	Push-On Switch 0,5 mm	Standard
STEC11B08	11 mm	15	30	Vertical Type	20 mm	Flat	No	Standard
STEC11B09	11 mm	20	20	Horizontal Type	20 mm	Flat	Push-On Switch 0,5 mm	Standard
STEC11B10	11 mm	20	20	Horizontal Type	20 mm	Flat	No	Standard
STEC11B13	11 mm	20	20	Vertical Type	20 mm	Flat	Push-On Switch 0,5 mm	Standard
STEC11B12	11 mm	20	20	Vertical Type	20 mm	Flat	No	Standard

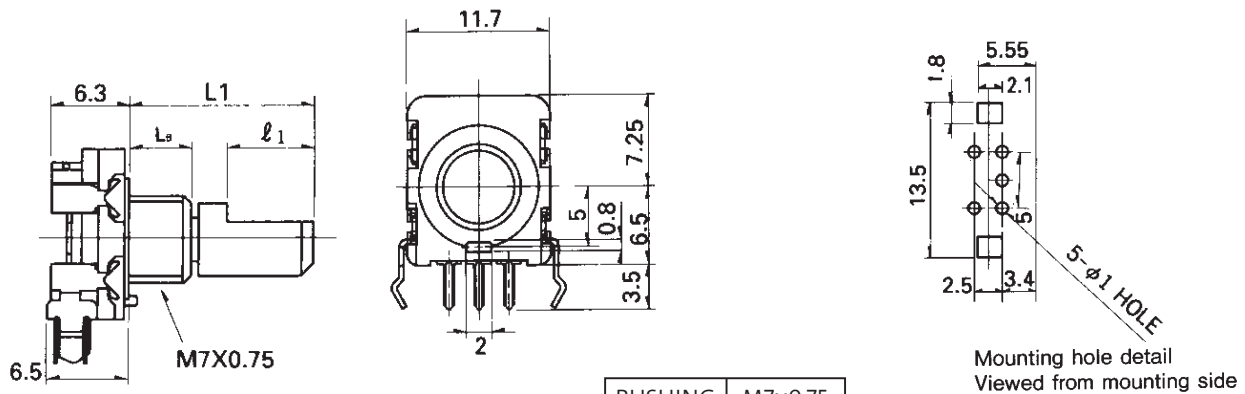
Standard Specifications:

Ratings:
 max. Operating Current: 10mA
 Insulation Resistance: 300V DC 10 MΩ min.
 Withstand Voltage: 300V AC
 Life cycles: 15.000 cycles

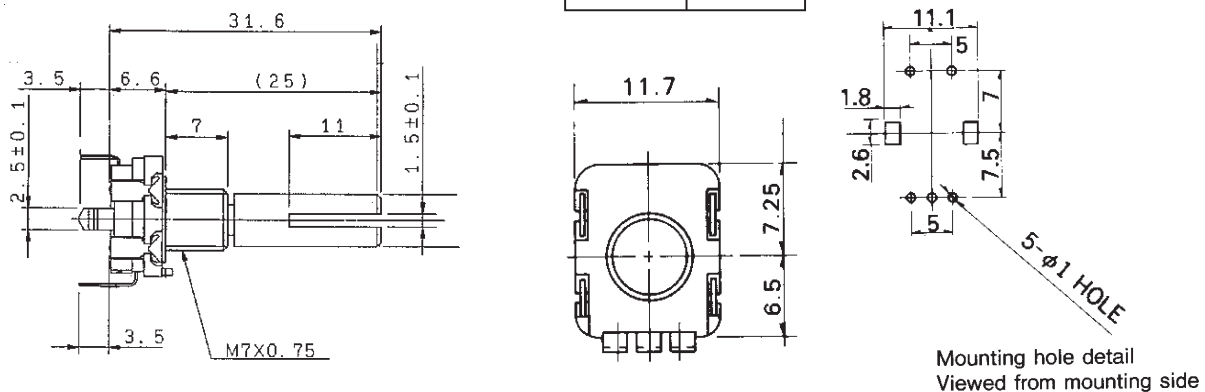
Number of Shafts: 1

Terminals: Printed Wiring
 Attachment: No

EC11B Horizontal



EC11B Vertical



Unit: (mm)

Rotary Encoder

41



Order Number	Size (mm)	Number of Pulses	Detents	Details	Shaft length (mm)	Shaft Style	Attachement	Rest of Specification
STEC16B01	16 mm	24	Without Detent	Horizontal Type	25 mm	Flat	No	Standard
STEC16B02	16 mm	24	24	Horizontal Type	25 mm	Flat	No	Standard
STEC16B03	16 mm	24	Without Detent	Vertical Type	25 mm	Flat	No	Standard
STEC16B04	16 mm	24	24	Vertical Type	25 mm	Flat	No	Standard

Standard Specifications:

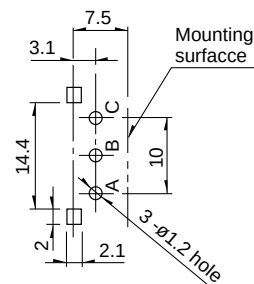
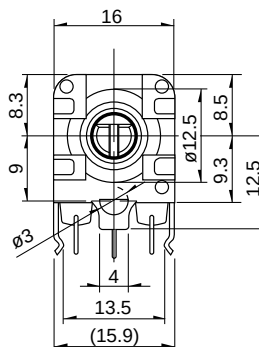
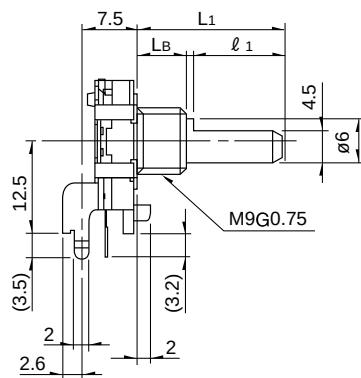
Ratings: 0.5mA 5 VDC

max. Operating Current: 0.5mA

Insulation Resistance: 50V DC 10 MΩ min.

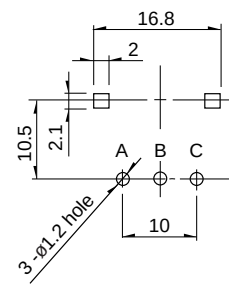
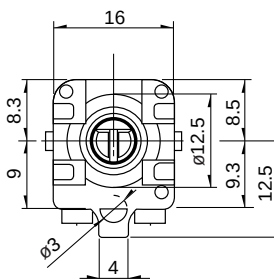
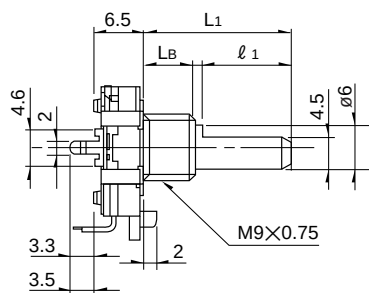
Withstand Voltage: 50V AC

EC16B Horizontal



Mounting hole detail
viewed from mounting side

EC16B Vertical



Mounting hole detail
viewed from mounting side

Unit: (mm)

Rotary Encoder



Order Number	Size (mm)	Number of Pulses	Detents	Details	Shaft length (mm)	Shaft Style	Attachment	Rest of Specification
STEC12E01	12 mm	12	12	Horizontal Type	20 mm	Flat	No	Standard
STEC12E02	12 mm	12	12	Horizontal Type	20 mm	Flat	Push-On Switch 0,5 mm	Standard
STEC12E03	12 mm	12	12	Vertical Type	20 mm	Flat	No	Standard
STEC12E04	12 mm	12	12	Vertical Type	20 mm	Flat	Push-On Switch 0,5 mm	Standard
STEC12E05	12 mm	24	24	Horizontal Type	20 mm	Flat	No	Standard
STEC12E06	12 mm	24	24	Horizontal Type	20 mm	Flat	Push-On Switch 0,5 mm	Standard
STEC12E07	12 mm	24	24	Vertical Type	20 mm	Flat	No	Standard
STEC12E08	12 mm	24	24	Vertical Type	20 mm	Flat	Push-On Switch 0,5 mm	Standard
STEC12E09	12 mm	24	24	Vertical Type	—	Hollow shaft	No	Standard

Standard Specifications:

Ratings:

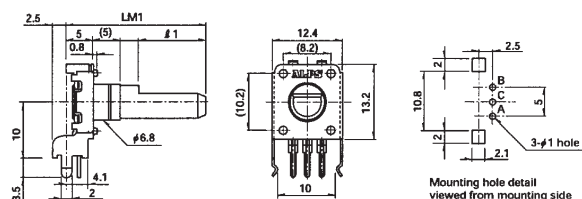
0,5mA 5 VDC

max. Operating Current: 0,5mA

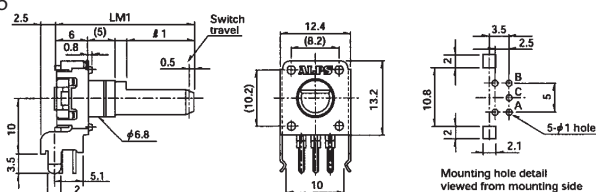
Insulation Resistance: 50V DC 10 MΩ min.

Withstand Voltage: 50V AC

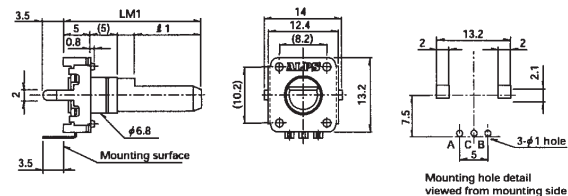
STEC12E01
STEC12E05



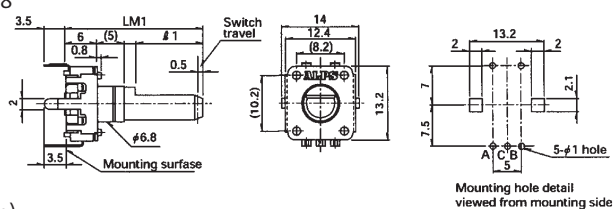
STEC12E02
STEC12E06



STEC12E03
STEC12E07

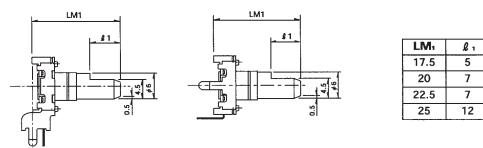
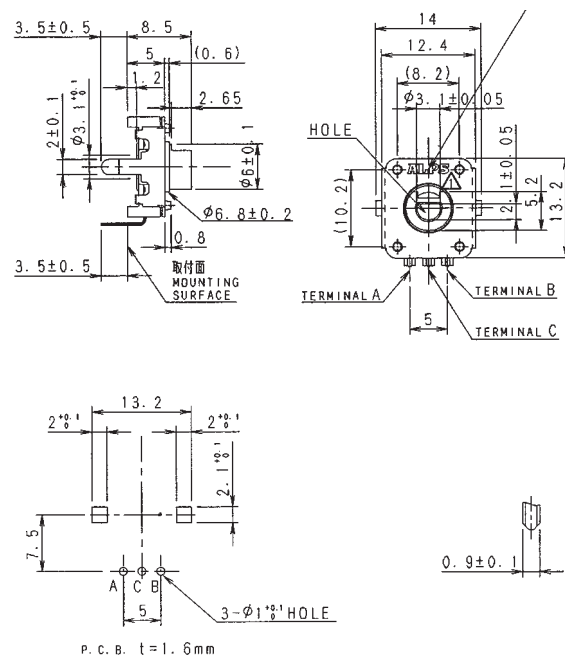


STEC12E04
STEC12E08



Unit: (mm)

STEC12E09



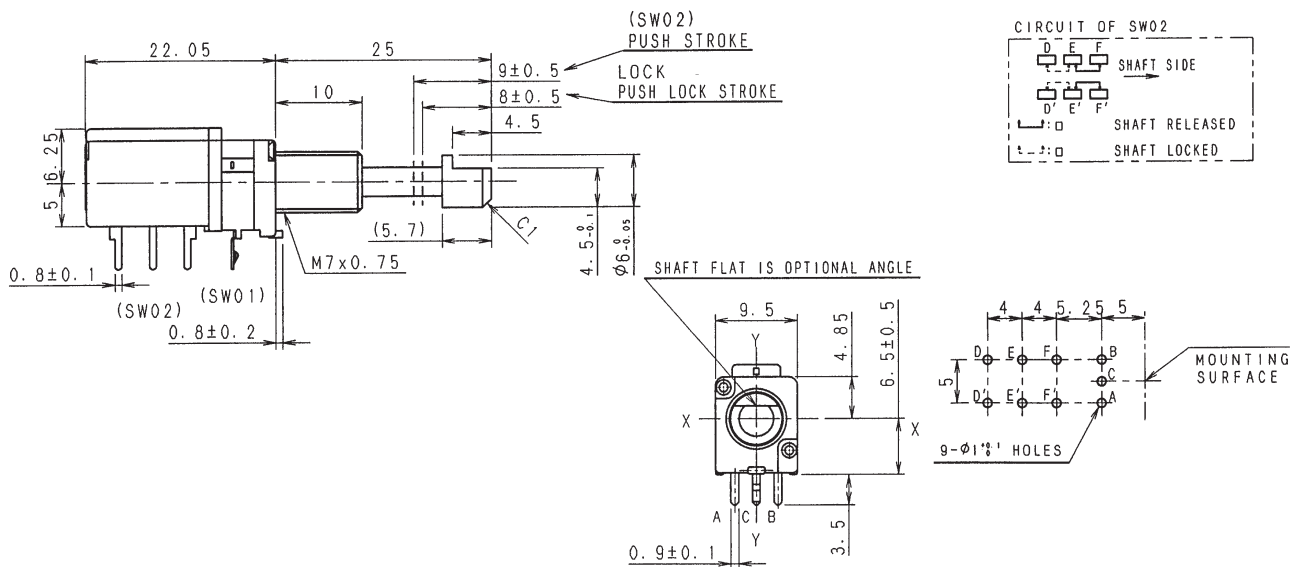
LM1	φ1
17.5	5
20	7
22.5	7
25	12

9 mm Size Encoder

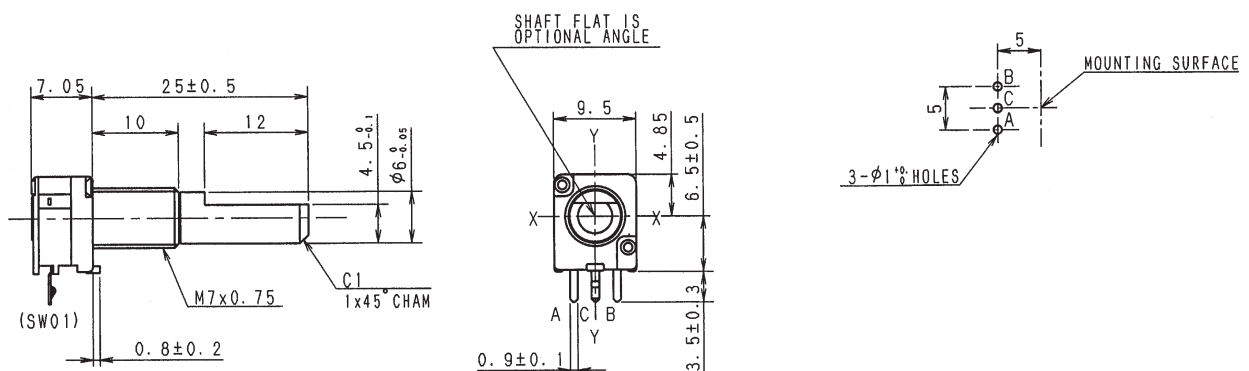


Order Number	Size (mm)	Number of Pulses	Detents	Shaft length (mm)	Shaft Style	Attachement	Rest of Specification
STRK09EC1	9 mm	15	15	25 mm	Flat	With Push lock function	Standard
						With Push lock switch	
STRK09EC2	9 mm	15	15	25 mm	Flat	No	

STRK09EC1



STRK09EC2



Unit: (mm)

Hollow Shaft Encoder



Order Number	Model	Positions	Size	Life cycles
STSRGP1	24	24	Refer to drawing	100,000 cycles
STSRGP2	20	20	Refer to drawing	50,000 cycles
STSRGPWJ	10	20	Refer to drawing	50,000 cycles
STSRGPSJ1	16	32	Refer to drawing	50,000 cycles

Standard Specifications:

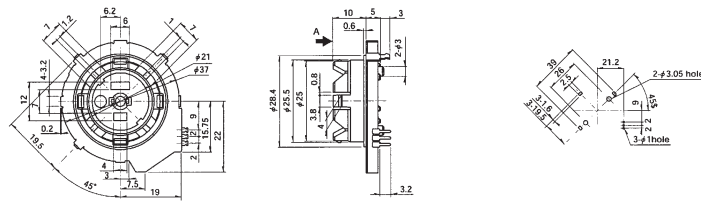
Ratings: 10mA 5 VDC

max. Operating Current: 10mA

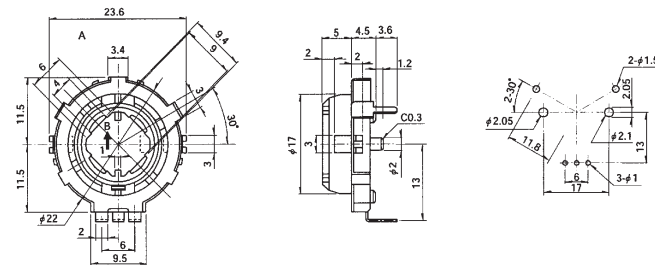
Insulation Resistance: 100V DC 10 MΩ min.

Withstand Voltage: 100V AC

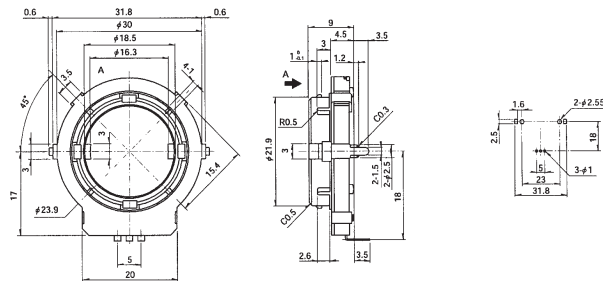
STSRGP1



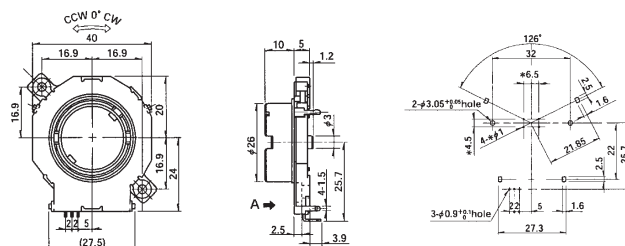
STSRGP2



STSRGPWJ



STSRGPSJ1



Unit: (mm)

Magnetic Encoder



Order Number	Size (mm)	Number of Pulses	Detents	Details	Shaft length (mm)	Shaft Style	Attachement	Rest of Specification
STEM20B41	20	40	40	LED: colour orange	10	Flat	31 LED's with push on switch 0,5 mm	Standard
STEM20B42	20	40	40	without LED	16	Flat	push on switch 0,5 mm	Standard
STEM11B01	11	16	16	Vertical Type	15	Flat	push on switch 0,5 mm	Standard

Standard Specifications:

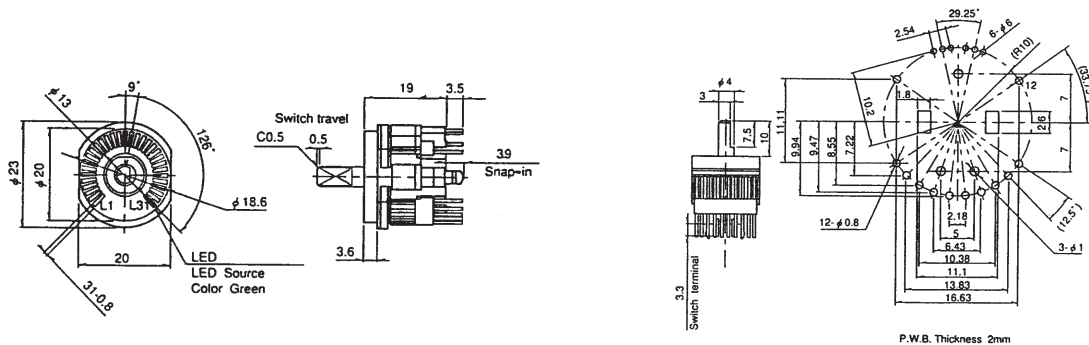
Power Ratings: 5 VDC +/-5

Current consumption: 15mA max

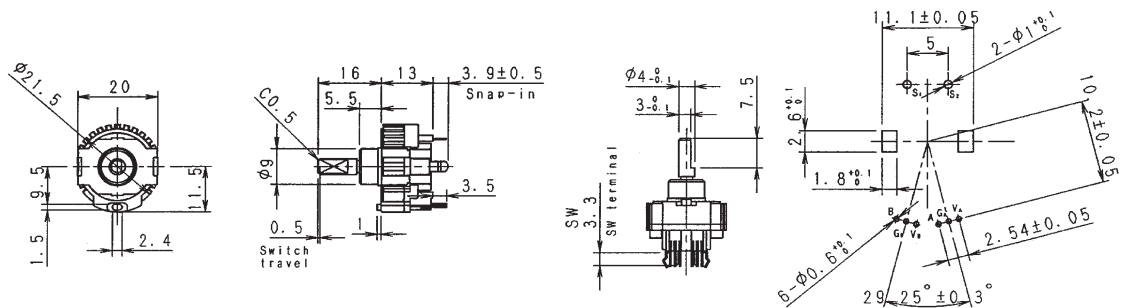
Output Phase: A,B (square wave)

Life cycles: up to 1.000.000 cycles

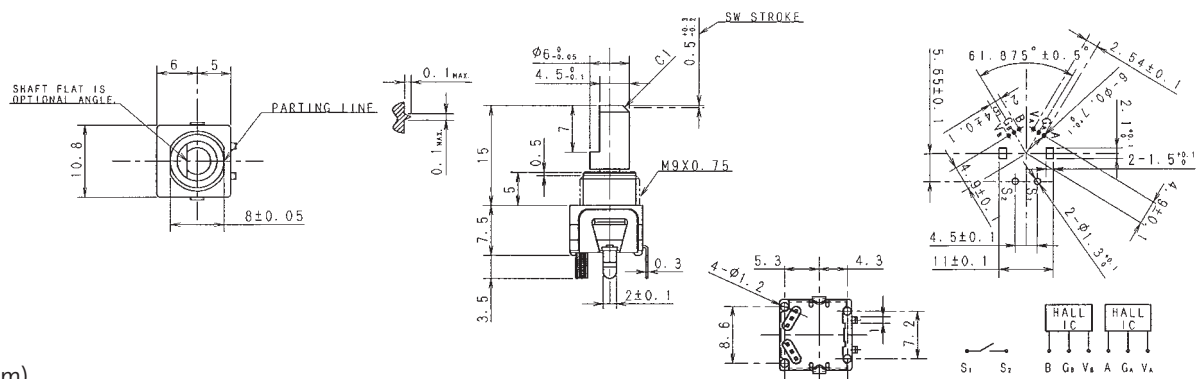
STEM20B41



STEM20B42



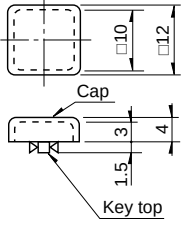
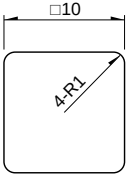
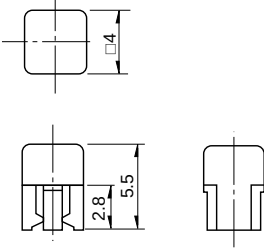
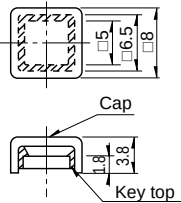
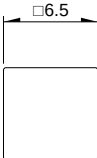
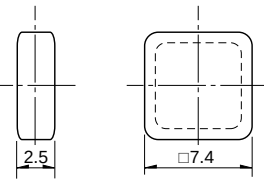
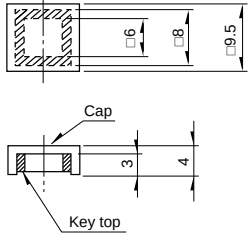
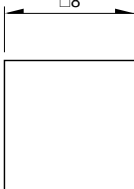
STEM11B01



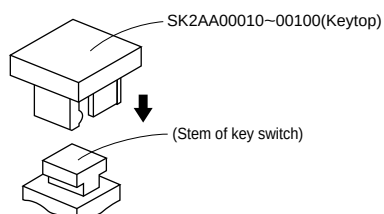
Unit: (mm)

Keytop Product Line

for Tact Switches

	Models	Unit: mm	Variety Colour	Variety Model	Label Dimension
	SKHC		Cap:		 Thickness 0.1
	SKQE		Clear	SK2AA00510	
			Keytop:		
			Red	SK2AA00010	
			Blue	SK2AA00020	
	SKHH		Red	SK2AA00410	
			Blue	SK2AA00420	
			Ivory	SK2AA00430	
			Black	SK2AA00440	
			Yellow	SK2AA00450	
	SKHJ		Cap:		
			Clear	SK2AA00520	
			Keytop:		
			Red	SK2AA00210	
			Blue	SK2AA00220	
	SKHQ		Red	SK2AA00460	
			Blue	SK2AA00470	
			Ivory	SK2AA00480	
			Black	SK2AA00490	
			Yellow	SK2AA00500	
	SKEC		Cap:		
			Clear	SK2AA00530	
			Keytop:		
			Red	SK2AA00110	
			Blue	SK2AA00120	

1. The knob is shipped with the switch, unmounted.
2. The label is not included.



Unit: (mm)



ALPS ELECTRIC EUROPA GmbH

Hansaallee 203

D-40549 Düsseldorf

Telefon (49) 211-5977-0

Fax (49) 211-5977-146

E-Mail: alpseuropa@alps-europe.com

www.alps-europe.com