TACT Switch™ 6mm Square (Snap-in Type)

SKHH Series





User friendly 6×6mm type, available in a wide variety.



Product Line

Vertical Type

Vertical Type											
Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Minimum order unit(pcs.)	Drawing No.
SKHHAJA010	0.98N					1,000,000cycles		Black			1
SKHHALA010	1.57N					500,000cycles		Dark gray	h=4.3mm		
SKHHAQA010	2.55N					200,000cycles		Red			
SKHHAKA010	0.98N					1,000,000cycles		Black			
SKHHAMA010	1.57N					500,000cycles		Dark gray		1,000	
SKHHARA010	2.55N					200,000cycles		Red	h=5mm		
SKHHCQA010	3.53N							Orange			
SKHHCRA010	5.10N							Yellow	N C		
SKHHBVA010	0.98N	Vertical	0.25	50mA		1,000,000cycles	100m	Black			
SKHHBWA010	1.57N	Vertical	0.25	12V DC		500,000cycles	max.	Dark gray	h=7mm		
SKHHBYA010	2.55N					200,000cycles		Red	-		
SKHHANA010	0.98N					1,000,000cycles		Black			
SKHHAPA010	1.57N					500,000cycles		Dark gray	h=9.5mm		
SKHHBSA010	2.55N					200,000cycles		Red			
SKHHDTA010	0.98N					1,000,000cycles		Black	- h=13mm		
SKHHDUA010	1.57N					E00 0000 voloo		Dark gray			
SKHHDHA010	0.98N					500,000cycles		Black	h=17mm]	
SKHHDJA010	1.57N]				300,000cycles		Dark gray	11=1/1111111		

Joint Stem Type

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)		Stem color	Stem height	Minimum order unit(pcs.)	Drawing No.
SKHHCWA010	0.98N				10μA 1V DC	1,000,000 cycles	100m	Black	h=7.3mm	1,000	2
SKHHDAA010	1.57N	Vertical	0.25	50mA 12V DC		500,000 cycles		Dark gray			
SKHHDGA010	2.55N					200,000 cycles		Red			

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

3. 71.

TACT Switch™

Custom-Products

Sharp Feeling Soft Feeling

Snap-in Type Surface

Mount Type
Radial
Type

Product Line With Ground Terminal Type

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Minimum order unit(pcs.)	Drawing No.
SKHHPJA010	0.98N				10 <i>μ</i> A 1V DC	1,000,000 cycles	100m	Black		- 1,000	3
SKHHPLA010	1.57N					500,000 cycles		Dark gray	h=4.3mm		
SKHHPQA010	2.55N					200,000 cycles		Red			
SKHHPKA010	0.98N			50mA 12V DC		1,000,000 cycles		Black			
SKHHPMA010	1.57N		0.25			500,000 cycles		Dark gray			
SKHHPRA010	2.55N	Vertical				200,000 cycles		Red			
SKHHQVA010	0.98N	Vertical	0.25			1,000,000 cycles	max.	Black			
SKHHQWA010	1.57N					500,000 cycles		Dark gray			
SKHHQYA010	2.55N					200,000 cycles		Red			
SKHHPNA010	0.98N					1,000,000 cycles		Black			
SKHHPPA010	1.57N					500,000 cycles		Dark gray			
SKHHQNA010	2.55N					200,000 cycles	1	Red			

Horizontal Type

Horizontal Type											
Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem length	Minimum order unit(pcs.)	Drawing No.
SKHHLMA010	0.98N				10 <i>μ</i> A 1V DC	1,000,000 cycles	100m max.	Black	<i>ℓ</i> =3.85mm	- 1,000	4
SKHHLNA010	1.57N					500,000 cycles		Dark gray			
SKHHLPA010	2.55N					200,000 cycles		Red			
SKHHLQA010	0.98N			50mA 12V DC		1,000,000 cycles		Black			
SKHHLRA010	1.57N	Horizontal				500,000 cycles		Dark gray			
SKHHLSA010	2.55N		0.25			200,000 cycles		Red			
SKHHLUA010	0.98N	Tionzontai	0.23			1,000,000 cycles		Black			
SKHHLVA010	1.57N					500,000 cycles		Dark gray			
SKHHLWA010	2.55N					200,000 cycles		Red			
SKHHNHA010	0.98N					500,000 cycles		Black	<i>ℓ</i> =15.85mm		
SKHHNJA010	1.57N					300,000 cycles		Dark gray			
SKHHNKA010	2.55N					200,000 cycles		Red			

Sharp Feeling Soft Feeling Snap-in Type

Detector

Push

Slide

Rotary

Power

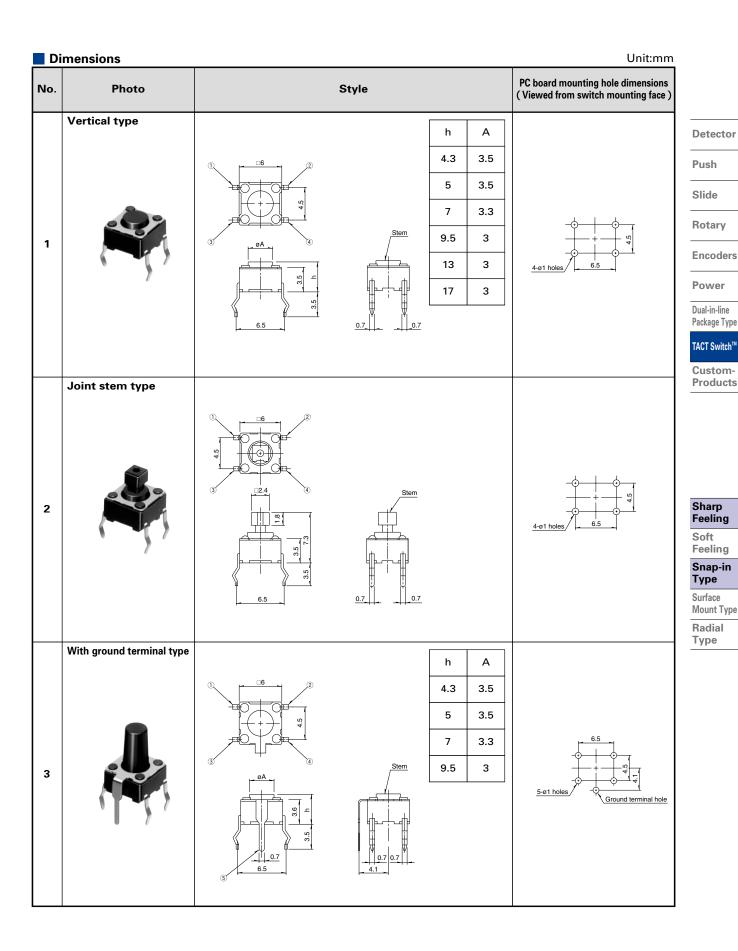
Dual-in-line
Package Type

TACT Switch™

CustomProducts

Encoders

Surface Mount Type Radial Type



ALPS

Dimensions Unit:mm PC board mounting hole dimensions (Viewed from switch mounting face) No. Photo Style **Horizontal type** 3.85 3.5 5.85 3.3 8.35 3 2-ø1.3 holes 15.85 3 4

Note

Please use 1.6mm thick PC boards.

Circuit Diagram

Vertical type/Joint stem type	With ground terminal type	Horizontal type
①	①——② ③——④ ⑤———	1)—————————————————————————————————————

Sharp Feeling

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

CustomProducts

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

List of Varieties

Sharp Feeling Type

Oii	агр гее	,g .	ypc										
	Series		SKHR	SKHL	sкнн	SKHW	SKRD	SKQJ	SKHL	SKHH	SKQJ	SKHJ	SKQB
	Photo						87				0		•
	Туре							Snap-in					•
Features						Dust-proof type	Horizontal type		Но	rizontal ty	/pe	With LED	Water- proof
Oper	Vert	tical											
Operating direction	Horiz	ontal				1							
		w	4.5	6		•	6.2	0.0	7.3	7	.5		10
Dimensions (mm)		D	4.5	3.5		6		6.6	7.22	7.	85	8	10
		Н	3.8		4.3		7.4	5	4.3	7.4	7.3	8.5	5
1N Operation force coverage		1	1		1	1	‡	1	1	1	1	‡	
		5N			+								
Grou	ınd terr	nınaı					-20) to + 70	<u> </u>				
	peratin nperati range		SKHJ/HL(Vertical Type) /QJ -30 to +85										
Elec	Insula resist		100M min. 100V DC										
Electrical performance	Volt	age					250\	AC for 1	min.				
	Vibra	ation		10	to 55 to in t	10Hz/min he 3 direc	., the amp tion of X,	olitude is Y and Z f	1.5mm fo for 2hours	r all the f s respecti	requencie vely	es,	
Durability	Lifet	time			Sh	all be in a	ccordance	e with inc	lividual sp	pecificatio	ons.		
Envi	Co	old					-30	±2 for	96h				
Environmental performance	Dry	heat					80 :	±2 for 9	96h				
ental nce	Damp	heat	60 ± 2 , 90 to 95%RH for 96h										
	Page		252	253	255	259	260	261	253	255	261	263	265
								ACALL TI.					

W: Width. The most outer dimension excluding terminal portion.

D: Depth. The most outer dimension excluding terminal portion.

H: Height. The minimum dimension if there are variances.

Product Line of Knob for TACT Switch™......308

Note

The automotive operating temperature range to be individually discussed upon request.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**

Sharp Feeling Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch^{TI}

Custom-

Products

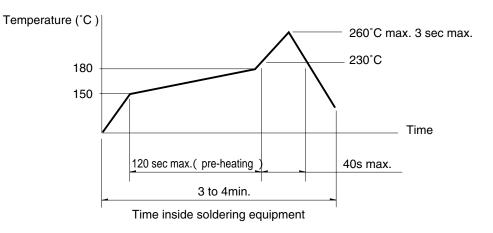
Snap-in Type Surface Mount Type Radial Type

Soldering Conditions

Condition for Reflow

Available for Surface Mount Type.

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2 CA(K)or CC(T)at solder joints(copper foil surface). A heat resistive tape should be used to fix thermocouple.
- 3. Temperature profile



Note

- 1. The above temperature shall be measured on the mounting surface of a PC board. There are cases where the PC board's temperature greatly differs from that of the switch, depending on the material, size, thickness of PC boards and others. The above-stated conditions shall also apply to switch surface temperatures.
- 2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

Sharp Feeling Conditions for Auto-dip Available for Snap-in Type and Radial Type (Except SKHJ, SKHL, SKQJ, SKQK, SKEG series)

Items	Condition
Flux built-up	Mounting surface should not be exposed to fluk
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100 max.
Preheating time	60s max.
Soldering temperature	260 max.
Duration of immersion	5s max.
Number of soldering	2times max.

Manual Soldering (Except SKRT Series)

Items	Condition
Soldering temperature	350 max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

Notes

- 1. Consult with us for availability of TACT Switch™ washing.
- 2. Prevent flux penetration from the top side of the TACT Switch™.
- 3. Switch terminals and a PC board should not be coated with flux prior to soldering.
- 4. The second soldering should be done after the switch is stable with normal temperature.
- 5. Use the flux with a specific gravity of min 0.81. (EC-19S-8 by TAMURA Corporation, or equivalents.)

Product Line of Knobs

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Detector	
Push	
Slide	
Rotary	
Encoders	Aı
Power	
Dual-in-line Package Type	
TACT Switch™	
Custom- Products	
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Sharp Feeling
Soft Feeling
Snap-in Type
Surface Mount Type
Radial Type

							Unit:mm
Applicat	ole model	Di	mensions		Variety		Label dimensions
Applicat	ole illouei	Dii	illelisiolis	Color	Мо	del	(Unit:mm)
					Keytop		
Applicab	(HH ole to joint on type		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Red Blue Ivory Black Yellow	SK2AA00410 SK2AA00420 SK2AA00430 SK2AA00440 SK2AA00450		
					Сар		
	SKHC SKQE		2 2 2	Clear	SK2AA00510		□10 N
			Cap	Keytop		Keytop + Cap	, kgh
	ole to joint n type		Key top	Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090	Thickness 0.1
					Сар		
			772723	Clear	SK2AA00520		- □6.5
SI	KHJ		Cap	Keytop		Keytop+Cap	
			Key top	Red Blue Ivory Black Yellow	SK2AA00210 SK2AA00220 SK2AA00230 SK2AA00240 SK2AA00250	SK2AA00260 SK2AA00270 SK2AA00280 SK2AA00290 SK2AA00300	Thickness 0.1
					Сар		
			91 4.7	Clear SK2AA00540			<u>□6</u>
Sk	ŒG		Cap	Keytop		Keytop+Cap	kg0 ⁵
Applicable to joint			Key top	Red Blue Ivory Black Yellow	SK2AA00310 SK2AA00320 SK2AA00330 SK2AA00340 SK2AA00350	SK2AA00360 SK2AA00370 SK2AA00380 SK2AA00390 SK2AA00400	Thickness 0.1
sten	n type			reilow	SKZAAUU350	3KZAAUU400	i nickness 0

- The knob will be delivered together with the switch but packed separately.
 The label is not included.
 For SK2AA00010 to SK2AA00090 types, please check the mounting direction.

