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



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



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**

Sharp Feeling

Feeling

Snap-in Type

Surface Mount Type Radial Type

Product Line

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			
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	h=5mm		1
SKHHARA010	2.55N			50mA 12V DC	10μA 1V DC			Red		1,000	
SKHHCQA010	3.53N					200,000cycles		Orange			
SKHHCRA010	5.10N							Yellow			
SKHHBVA010	0.98N	Vertical	0.25			1,000,000cycles	100m Ω	Black	h=7mm		
SKHHBWA010	1.57N	Vertical	0.25			500,000cycles	max.	Dark gray			
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_12mm		
SKHHDUA010	1.57N					500,000cycles		Dark gray	h=13mm h=17mm		
SKHHDHA010	0.98N					500,000cycles		Black		1	
SKHHDJA010	1.57N				,	300,000cycles		Dark gray	11=17111111		

Automotive

Joint Stem 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.
SKHHCWA010	0.98N					1,000,000 cycles		Black			
SKHHDAA010	1.57N	Vertical	0.25	50mA 12V DC	10μA 1V DC	500,000 cycles	100m Ω max.	Dark gray	h=7.3mm	1,000	2
SKHHDGA010	2.55N					200,000 cycles		Red			

Note

Please place purchase orders per minimum order unit N (integer).

Refer to P.334 for soldering conditions. Refer to P.336 for standard knobs.

Product Line With Ground Terminal Type

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Custom-Products

Vith 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					1,000,000 cycles	- - - 100m Ω	Black			
SKHHPLA010	1.57N					500,000 cycles		Dark gray	h=4.3mm		
SKHHPQA010	2.55N					200,000 cycles		Red]		
SKHHPKA010	0.98N			0.25 50mA 12V DC	10μA 1V DC	1,000,000 cycles		Black	h=5mm		3
SKHHPMA010	1.57N					500,000 cycles		Dark gray		- 1,000	
SKHHPRA010	2.55N	Vertical	0.25			200,000 cycles		Red			
SKHHQVA010	0.98N	vertical	0.23			1,000,000 cycles	max.	Black	h=7mm h=9.5mm		
SKHHQWA010	1.57N					500,000 cycles]	Dark gray			
SKHHQYA010	2.55N					200,000 cycles		Red			
SKHHPNA010	0.98N					1,000,000 cycles		Black		1	
SKHHPPA010	1.57N					500,000 cycles		Dark gray			
SKHHQNA010	2.55N					200,000 cycles	1	Red			

Horizontal Type

Sharp Feeling
Soft Feeling
Snap-in Type
Surface Mount Type
Desilest
Radial 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					1,000,000 cycles	100mΩ max.	Black	ℓ=3.85mm	1,000	
SKHHLNA010	1.57N					500,000 cycles		Dark gray			
SKHHLPA010	2.55N					200,000 cycles		Red			
SKHHLQA010	0.98N				10 <i>μ</i> A 1V DC	1,000,000 cycles		Black	ℓ=8.35mm		4
SKHHLRA010	1.57N		0.25	50mA 12V DC		500,000 cycles		Dark gray			
SKHHLSA010	2.55N	Horizontal				200,000 cycles		Red			
SKHHLUA010	0.98N	TIOTIZOTILAT				1,000,000 cycles		Black	ℓ=5.85mm		
SKHHLVA010	1.57N					500,000 cycles		Dark gray			
SKHHLWA010	2.55N	-				200,000 cycles		Red			
SKHHNHA010	0.98N					500,000 cycles		Black	ℓ=15.85mm		
SKHHNJA010	1.57N					300,000 cycles		Dark gray			
SKHHNKA010	2.55N					200,000 cycles		Red			

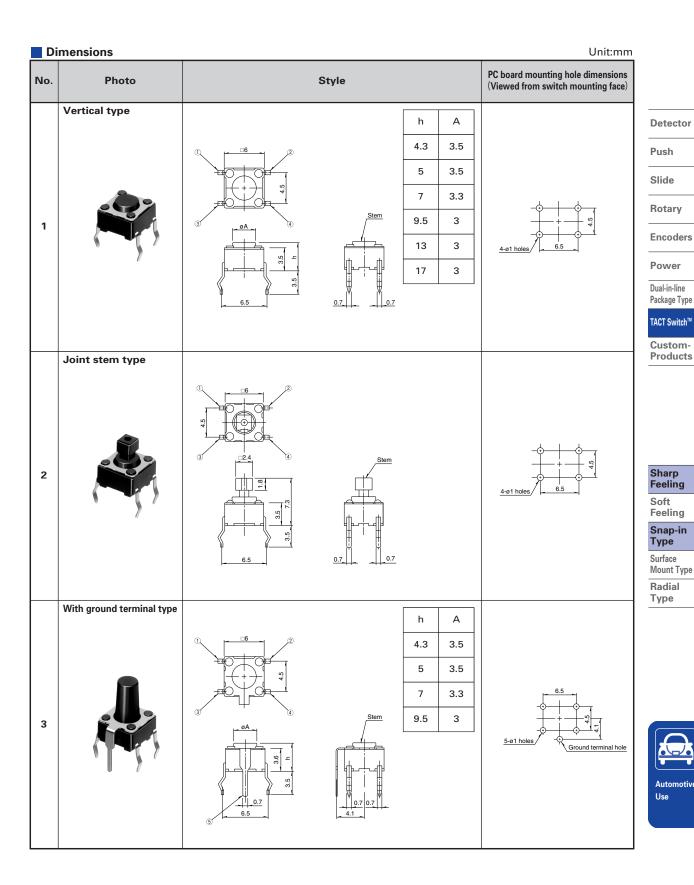
Packing Specifications

Bulk

	Number of pa	Number of packages (pcs.)						
Series	1 case /Japan	1 case /export packing	package measurements (mm)					
Other	10,000	30,000						
SKHHDT,SKHHDU SKHHDH,SKHHDJ SKHHNH,SKHHNJ SKHHNK	5,000	15,000	309×476×347					

Note

Please place purchase orders per minimum order unit N (integer).



Detector

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Rotary

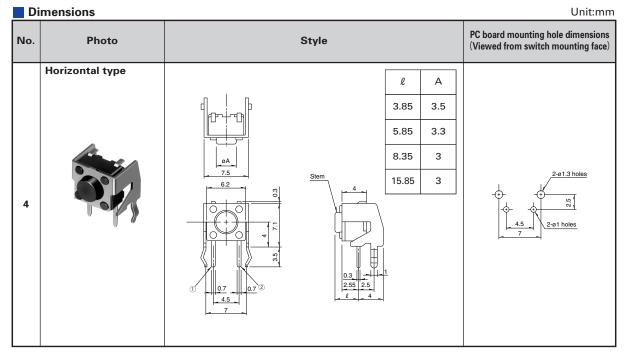
Encoders

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Custom-Products



Note

Please use 1.6mm thick PC boards.

Circuit Diagram

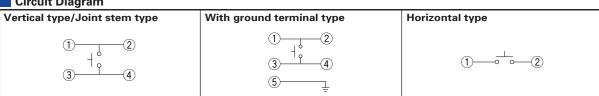
Sharp Feeling

Soft Feeling

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List of Varieties

Sharp Feeling Type

	Series		SKHR	SKHL	SKHH	SKHW	SKRD	SKQJ	SKHL	SKHH	SKQJ	SKQB	SKQU
Photo						Q.				\$ 1			
Туре			Snap-in										
Features						Dust-proof type	Horizontal type	_	Но	rizontal ty	ype	Water– proof	4-direction switch+push switch
Ope dire	Vert	tical	•	•	•	•	_	•	_			•	•
Operating direction	Horiz	ontal	_			_	•	_	•	•	•	_	_
		w		6		_	6.2		7.3	7	.5		
Dimensions (mm)		D	□4.5	3.5] 6	7.15	□6.6	7.22	7.85		_ □10	
		н	3.8		4.3		7.4	5	4.3	7.4	7.3	5	7.1
1N Operation force coverage		1	1		1	1	1	1	1	1	‡	See the relevant pages for respective product	
Travel (mm)				0.25		0.3			0.25		I	0.3	descriptions
Grou	nd terr	ninal	_	_	•	_		_			_		_
	peratin		−20°C to +70°C SKHL(Vertical Type)/QJ										
ten	nperati range	ure	-30°C to +85°C										
Auto	motive	use	_ •									_	
Elec	Insula resist						100M	Ω min. 10	0V DC				•
Electrical performance	Volt						250\	/ AC for 1	min.				
	Vibra	ation		10	to 55 to in tl	10Hz/min he 3 direc	., the amp tion of X,	olitude is Y and Z f	1.5mm fo or 2hours	r all the f respecti	requencie vely	es,	
Durability	Lifet	ime	Shall be in accordance with individual specifications.										
Envi per	Co	old					-30	±2℃ for	96h				
Environmental performance	Dry	heat					80:	±2℃ for 9	96h				
ental	Damp	heat	60±2℃, 90 to 95%RH for 96h										
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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.

■ TACT Switch™ Cautions ·······335

Notes

- 1. The automotive operating temperature range to be individually discussed upon request.
- •marks in "Available for automotive use" indicate that all of the series products can work at the operating temperature range from -40°C to +85°C.

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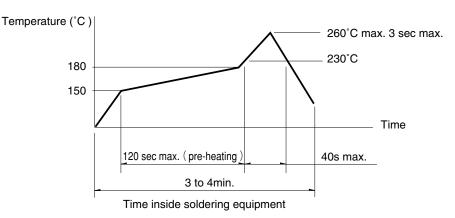
Products

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 0.2ϕ CA (K) or CC (T) at solder joints (copper foil surface). A heat resistive tape should be used to fix thermocouple.
- 3. Temperature profile



Notes

- 1. The above temperature shall be measured of the top of switch. 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.

Conditions for Auto-dip

Available for Snap-in Type and Radial Type (Except, 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°C max.				
Preheating time	60s max.				
Soldering temperature	260°C max.				
Duration of immersion	5s max.				
Number of soldering	2times max.				

■ Manual Soldering (Except SKRT Series)

Condition
350°C max.
3s max.
60W max.

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Notes

- 1. Consult with us for availability of TACT Switch™ washing.
- 2. Prevent flux penetration from the top side of the TACT Switch $^{\text{TM}}$.
- 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.)

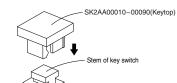
Product Line of Knobs

Unit:mm

Annii aabia waadal	D:	mensions		Label dimensions			
Applicable model	ווט	mensions	Color	Model		(Unit:mm)	
			Keytop				
SKHH Applicable to joint stem type		\$2 \$2 \$3 \$3	Red Blue Ivory Black Yellow	SK2AA00410 SK2AA00420 SK2AA00430 SK2AA00440 SK2AA00450			
				Сар			
			Clear	SK2AA00510		□10	
SKHC SKQE		Cap		Keytop	Keytop + Cap	L.F.	
Applicable to joint stem type		Key top	Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090	Thickness 0.1	
				Сар			
		91 4.7	Clear	SK2AA00540		□6	
SKEG		Cap		Keytop	Keytop+Cap	LRO5 /	
		Key top	Red Blue Ivory	SK2AA00310 SK2AA00320 SK2AA00330	SK2AA00360 SK2AA00370 SK2AA00380		
Applicable to joint stem type			Black Yellow	SK2AA00340 SK2AA00350	SK2AA00390 SK2AA00400	Thickness 0.1	

Notes

- 1. 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.



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Sharp Feeling Soft Feeling

Snap-in Type Surface Mount Type

Radial Type