TACT Switch™

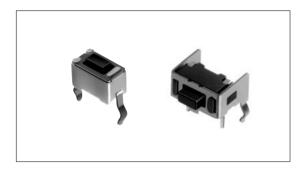
6 × 3.5mm Compact (Snap-in Type)

SKHL Series





A vertical and horizontal type switch contributing to high density mounting.



Product Line

Vertical Type

Product No.	Operating force	Operating direction	Travel (mm)		Rating (min.)	Operating life (5mA 12V DC)	Initial contact resistance	Stem color	Stem height	Minimum order unit(pcs.)	Drawing No.
SKHLAAA010	0.98N			50mA 12V DC	10 <i>μ</i> A 1V DC	50,000 cycles	500m max.	Black	h=4.3mm	- 1,000	1
SKHLACA010	1.57N							Dark gray			
SKHLAJA010	2.55N	Vertical	0.25			30,000 cycles		Red			
SKHLABA010	0.98N	vertical	0.25			50,000 cycles		Black	h=5mm		
SKHLADA010	1.57N							Dark gray			
SKHLAKA010	2.55N					30,000 cycles		Red			

Horizontal Type

nonzontai Type											
Product No.	Operating force	Operating direction			Rating (max.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Terminal length	Minimum order unit(pcs.)	Drawing No.
SKHLLAA010	0.98N					50,000		Black			
SKHLLBA010	1.57N					cycles		Dark gray	$\ell = 3.5$ mm (PC board t: 1.6)		
SKHLLFA010	2.55N	Horizontal	0.25	50mA 12V DC	10μA 1V DC	30,000 cycles	500m max.	Red		1,000	2
SKHLLCA010	0.98N					50,000		Black	ℓ =2.5mm		
SKHLLDA010	1.57N					cycles		Dark gray	(PC board t : 1.0)		

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line

Package Type

TACT Switch™

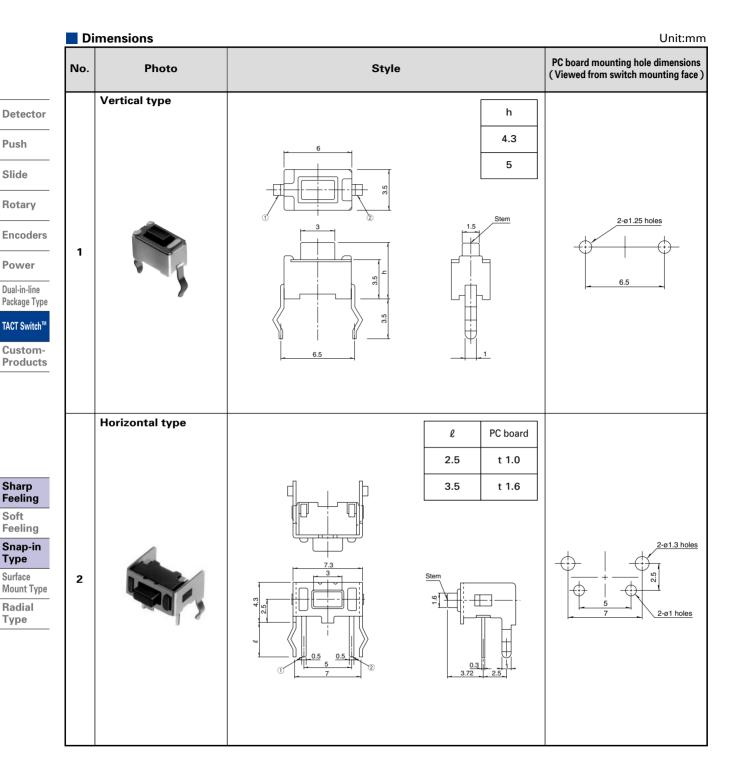
Custom-Products

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type Radial Type



Circuit Diagram

List of Varieties

Sharp Feeling Type

Sharp reening type														
Series		SKHR	SKHL	SKHH	SKHW	SKRD	SKQJ	SKHL	SKHH	SKQJ	SKHJ	SKQB		
Photo		Y				67	4		R	Q				
Туре		Snap-in												
Features					Dust-proof type	Horizontal type		Horizontal type			With LED	Water– proof		
erat ecti		tical												
		ontal				ı							I	
Dimensions (mm)		w	4.5	6		0	6.2	6.6	7.3	7	.5			
		D	4.5	3.5		6	7.15		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	1	1	
Grou	5N Ground terminal				•									
Operating temperature range		-20 to +70 SKHJ/HL(Vertical Type) /QJ -30 to +85												
Ele	Insulation resistance		100M min. 100V DC											
Electrical performance	Volt		250V AC for 1min.											
	Vibra	ation	10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2hours respectively											
Durability	Lifet	time			Sh	all be in a	ccordanc	ance with individual specifications.						
Env	Co	old	-30 ± 2 for 96h											
Environmental performance	Dry	heat	80 ± 2 for 96h											
ental	Damp	heat	60 ± 2 , 90 to 95%RH for 96h											
	Page		252	253	255	259	260	261	253	255	261	263	265	
							١٨/ . ١	A/: alaba Thaa	most oute		:		al mandian	

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.

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Note

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

Detector

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Dual-in-line Package Type

TACT Switch™

Custom-**Products**

Sharp Feeling Soft **Feeling** Snap-in Type

Surface Mount Type Radial

Type

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Power

Dual-in-line Package Type

TACT Switch¹¹

Custom-

Products

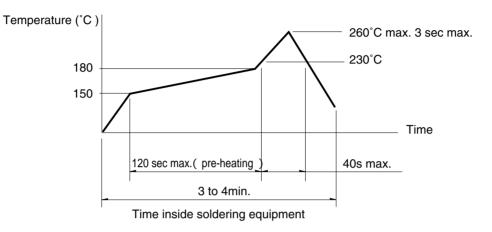
Snap-in Type Surface Mount Type Radial Type

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 \widetilde{Switch}^{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.)