

TACT Switch™

4.5mm Square Compact (Snap-in Type)

SKHR Series



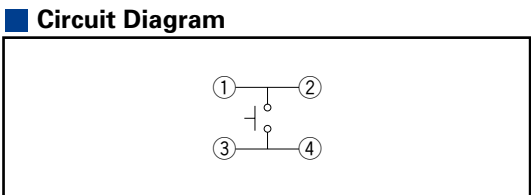
Compact snap-in type contribute to improve high density mounting.

- Detector
- Push
- Slide
- Rotary
- Encoders
- Power
- Dual-in-line
Package Type
- TACT Switch™
- Custom-
Products



Product Line									
Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Minimum order unit (pcs.)
SKHRAAA010	0.98N	Vertical	0.25	50mA 12V DC	10μ A 1V DC	50,000cycles	100mΩ max.	Black	1,000
SKHRABA010	1.57N					30,000cycles		Dark gray	
SKHRAHA010	2.55N					50,000cycles		Red	

Dimensions		Unit:mm
Style	PC board mounting hole dimensions (Viewed from switch mounting face)	



Note

Please use 1.6mm thick PC boards.

Refer to P.306 for soldering conditions.

List of Varieties

Sharp Feeling Type

Series			SKHR	SKHL	SKHH	SKHW	SKRD	SKQJ	SKHL	SKHH	SKQJ	SKHJ	SKQB	
Photo														
Type			Snap-in											
Features			—			Dust-proof type	Horizontal type	—	Horizontal type			With LED	Water-proof	
Operating direction	Vertical						—		—					
	Horizontal		—					—				—		
Dimensions (mm)		W	 4.5	6	 6		6.2	 6.6	7.3	7.5		 8	 10	
		D		3.5					7.15		7.22			7.85
		H	3.8	4.3			7.4	5	4.3	7.4	7.3	8.5	5	
Operation force coverage			1N											
			5N											
Ground terminal			—			—					—			
Operating temperature range			-20°C to +70°C SKHJ/HL(Vertical Type) /QJ											
			-30°C to +85°C											
Electrical performance	Insulation resistance		100MΩ min. 100V DC											
	Voltage proof		250V AC for 1min.											
Durability	Vibration		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											
	Lifetime		Shall be in accordance with individual specifications.											
Environmental performance	Cold		-30±2°C for 96h											
	Dry heat		80±2°C for 96h											
	Damp heat		60±2°C, 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.

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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™

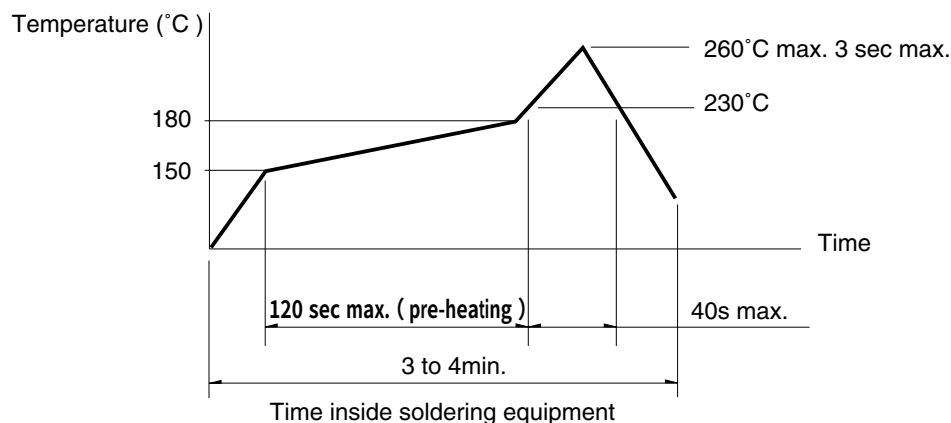
Custom-
ProductsSharp
FeelingSoft
FeelingSnap-in
TypeSurface
Mount TypeRadial
Type

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



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.

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 flux
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.

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.)

Manual Soldering (Except SKRT Series)

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