

# TACT Switch™ 6×6mm Dust-proof (Snap-in)Type

SKHW Series



Suitable for various electronic devices with unique dust-proof structure and sharp operational feeling.



## Features

- Some of output terminals can be also used as jumper leads, thus making circuit design easy.

## Applications

- Operating switches in all types of electronic equipment, such as audio devices, office equipment, communication devices, measuring instruments, TVs, video recorders, etc.

## Products Line

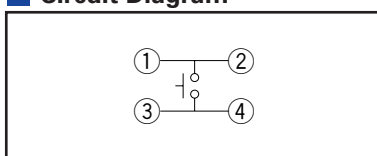
Products No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Minimum packing unit (pcs.)
SKHWALA010	1.57N	Vertical	0.3	50mA 12V DC	10μA 1V DC	1,000,000 cycles	100mΩ max.	Dark gray	h=4.3mm	1,000
SKHWARA010	2.55N					500,000 cycles		Red		
SKHWAPA010	1.57N					1,000,000 cycles		Dark gray	h=5mm	
SKHWAQA010	2.55N					500,000 cycles		Red		

## Dimensions

Unit:mm

Style	PC board mounting hole dimensions (Viewed from switch mounting face)

## Circuit Diagram



## Note

Using a 1.6mm thick PC board is recommended.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line  
Package Type

Multi Control  
Devices

TACT Switch™

Custom-  
Products

Sharp  
Feeling

Soft  
Feeling

Snap-in  
Type

Surface  
Mount Type

Radial  
Type

For other specifications, see P.369  
For soldering conditions, see P.370

## Products Specifications

Items		Series	Sharp feeling type	Soft feeling type
		Operating temperature range		
			-30°C to +85°C	-40°C to +90°C
Electrical performance	Insulation resistance	100MΩ min. 100V DC SKEY/PD : 50MΩ min. 100V DC		
	Voltage proof	250V AC for 1 min. SKRE/SKSC/SKRB/RV/RH/RM/RW/RR/EY/PD : 100V 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 2 hours 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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### Note

We can raise the working temperature range for in-vehicle applications upon request. Contact us if you have any requirements of this kind.

### Specifications of LED (SKHJ)

Color of light	Power dissipation P (mW)	Forward pulse peak current IFP (mA)	Forward current IFDC (mA)	Reverse voltage VR (V)	Forward voltage VF (V) IF=10mA	Reverse current IR (μA) VR=4V	Peak emission wave length λ peak (nm) IF=10mA	Spectral line half width Δλ (nm) IF=10mA	Luminous intensity IV (mcd) IF=10mA				
Red	40	80	15	4	2.7 max. 2.05TYP	5 max.	700 TYP	100 TYP	0.4min. 1.0 TYP				
Pure green										10 max.	555 TYP	20 TYP	0.8min. 2.0 TYP
Amber													
Orange (High brightness)				4	2.7 max. 2.0 TYP	630 TYP	40 TYP	1.5min. 4.0 TYP					
Green (High brightness)									2.7 max. 2.05TYP	565 TYP	30 TYP	2.0min. 5.0 TYP	

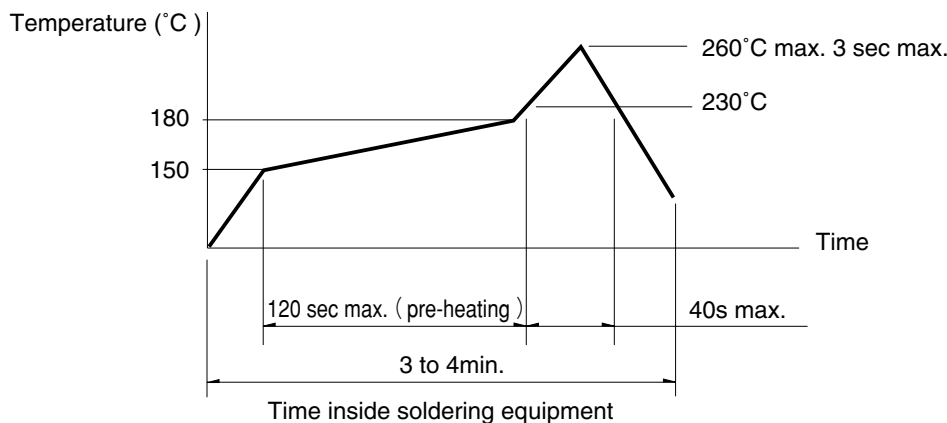
Sharp  
FeelingSoft  
FeelingSnap-in  
TypeSurface  
Mount TypeRadial  
Type

## Soldering Conditions

### Condition for Reflow

Available for Surface Mount Type. (Except SKRM, SKRR Series)

1. Heating method: Double heating method with infrared heater.
2. Temperature measurement: Thermocouple 0.1 to 0.2 φ CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
3. Temperature profile



### Note

1. The condition mentioned above is the temperature 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 PC board's material, size, thickness, etc. The above-stated conditions shall also apply to switch surface temperatures.
2. Soldering conditions differ depending on reflow soldering machines. You are requested to verify the soldering conditions thoroughly beforehand.

### Conditions for Auto-dip

Available for Snap-in Type and Radial Type  
(Except SKHJ, SKHL, SKQC, SKQJ, SKQK, SKEG series)

Items	Condition
Flux built-up	Mounting surface should not be coated with flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Continuous dipping time	5s max.
Number of soldering	2times max.

### Manual Soldering (Except SKRT series)

Items	Condition
Soldering temperature	350°C max.
Continuous soldering time	3s max.
capacity of soldering iron	60W max.

### Notes

1. Consult with us for TACT Switch™ washing conditions.
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 returns to normal temperature.
5. Use the flux with a specific gravity of at least 0.81.  
(EC-19S-8 by TAMURA Corporation, or their equivalents.)

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