

TACT Switch™ 4.5mm Square Compact (Snap-in Type)

SKHR Series

www.DataSheet4U.com



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 | 10μA 1V DC | 50,000cycles | 100m max. | Black | 1,000 |
| SKHRABA010 | 1.57N | | | | | 30,000cycles | | Dark gray | |
| SKHRAHA010 | 2.55N | | | | | 50,000cycles | | Red | |

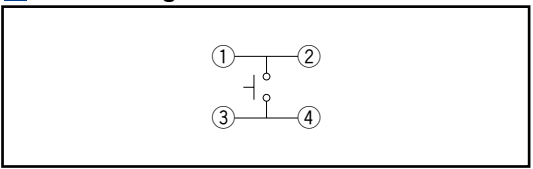
- Sharp Feeling
- Soft Feeling
- Snap-in Type
- Surface Mount Type
- Radial Type

Dimensions

Unit:mm

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

Circuit Diagram














Note

Please use 1.6mm thick PC boards.

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 to +70 SKHJ/HL(Vertical Type) /QJ | | | | | | | | | | | | |
| | | | -30 to +85 | | | | | | | | | | | | |
| Electrical performance | Insulation resistance | | 100M 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 for 96h | | | | | | | | | | | | |
| | Dry heat | | 80 ± 2 for 96h | | | | | | | | | | | | |
| | Damp heat | | 60 ± 2 , 90 to 95%RH for 96h | | | | | | | | | | | | |
| Page | | | 252 | 253 | 255 | 259 | 260 | 261 | 253 | 255 | 261 | 263 | 265 | | |

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™ Soldering Conditions306

TACT Switch™ Cautions307

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™

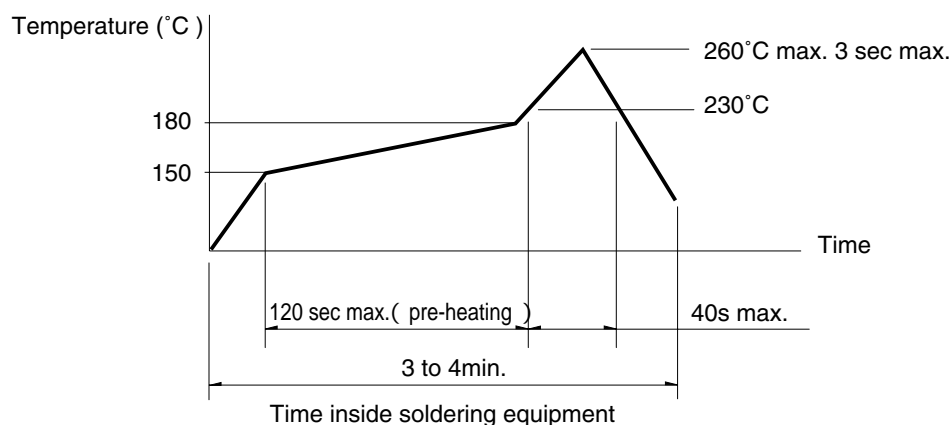
Custom-
ProductsSharp
FeelingSoft
FeelingSnap-in
TypeSurface
Mount TypeRadial
Type

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 0.2 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.

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 max. |
| Preheating time | 60s max. |
| Soldering temperature | 260 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 max. |
| Duration of soldering | 3s max. |
| Capacity of soldering iron | 60W max. |