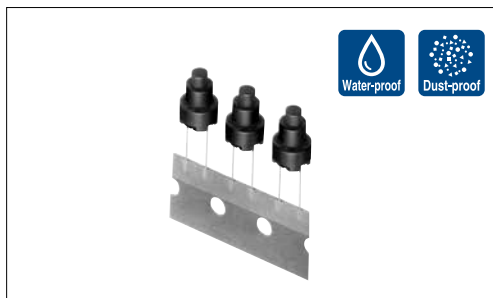


A round terminal type with highly efficient PC board mounting with excellent dust-proof and water-proof performance



#### Typical Specifications



| Items                      | Specifications     |
|----------------------------|--------------------|
| Rating (max.)              | 50mA 12V DC        |
| Rating (min.)              | 10 $\mu$ A 1V DC   |
| Initial contact resistance | 500m $\Omega$ max. |
| Travel (mm)                | 0.25               |

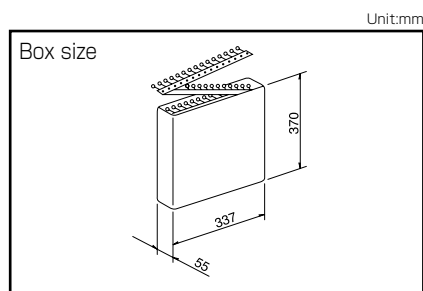
#### Product Line

| Product No.       | Operating force | Operating direction | Operating life<br>(5mA 5V DC) | Stem color | Minimum order unit (pcs.) |        |
|-------------------|-----------------|---------------------|-------------------------------|------------|---------------------------|--------|
|                   |                 |                     |                               |            | Japan                     | Export |
| <b>SKRCACD010</b> | 1.57N           | Top push            | 100,000 cycles                | Dark gray  | 900                       | 900    |
| <b>SKRCADD010</b> | 2.55N           |                     |                               | Red        |                           |        |

#### Packing Specifications

##### Radial Taping

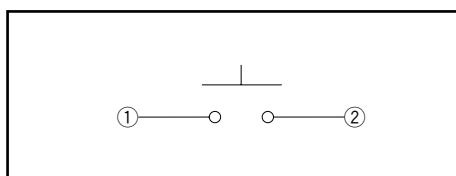
| Number of packages (pcs.) |                |                         | Export package measurements<br>(mm) |
|---------------------------|----------------|-------------------------|-------------------------------------|
| 1 box                     | 1 case / Japan | 1 case / export packing |                                     |
| 900                       | 9,000          | 9,000                   | 353×764×309                         |



#### Dimensions

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

#### Circuit Diagram



■ Water Resisting Performance

|                      |      |
|----------------------|------|
| Temperature of water | 60℃  |
| Depth of water       | 10cm |
| Immersion duration   | 240h |

Notes

- 1. Please use 1.6mm thick PC boards.
- 2. Be sure to apply a coating over the terminals after attaching the switch for resistance efficiency.
- 3. Avoid using coating material containing toluene or xylene. For more information on coating material, please contact us.

# TACT Switch™

## List of Varieties

TACT Switch™

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

| Type                        |                                | Sharp Feeling Type                                                                                                               |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-----------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                             |                                | Snap-in                                                                                                                          |                                                                                     |                                                                                     |                                                                                       | Radial                                                                                |
| Series                      |                                | SKHL                                                                                                                             | SKHH                                                                                | SKQJ                                                                                | SKQB                                                                                  | SKRC                                                                                  |
| Photo                       |                                |                                                 |    |    |    |    |
| Features                    |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                     | Round terminal type                                                                   |
| Water-proof                 |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | ●                                                                                     | ●                                                                                     |
| Dust-proof                  |                                | —                                                                                                                                | —                                                                                   | ●                                                                                   | ●                                                                                     | ●                                                                                     |
| IP standard                 |                                | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     |
| Operating direction         | Top push                       | —                                                                                                                                | —                                                                                   | —                                                                                   | —                                                                                     | ●                                                                                     |
|                             | Side push                      | ●                                                                                                                                | ●                                                                                   | ●                                                                                   | ●                                                                                     | —                                                                                     |
| Dimensions (mm)             | W                              | 7.3                                                                                                                              | 7.5                                                                                 | 7.5                                                                                 | 11.5                                                                                  | φ9                                                                                    |
|                             | D                              | 7.22                                                                                                                             | 7.85                                                                                | 7.85                                                                                | 11.9                                                                                  |                                                                                       |
|                             | H                              | 4.3                                                                                                                              | 7.4                                                                                 | 7.3                                                                                 | 11.3                                                                                  | 13                                                                                    |
| Operation force coverage    | 1N max.                        |                                                 |    |    |    |    |
|                             | 1N to 2N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | 2N to 3N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | 3N to 4N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | 4N to 5N                       |                                                                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Travel (mm)                 |                                | 0.25                                                                                                                             |                                                                                     |                                                                                     | 0.3                                                                                   | 0.25                                                                                  |
| Ground terminal             |                                | ●                                                                                                                                | ●                                                                                   | —                                                                                   | —                                                                                     | —                                                                                     |
| Operating temperature range |                                | -40℃ to +90℃                                                                                                                     |                                                                                     | -20℃ to +70℃                                                                        | -40℃ to +95℃                                                                          | -30℃ to +85℃                                                                          |
| Automotive use              |                                | ●                                                                                                                                | ●                                                                                   | —                                                                                   | ●                                                                                     | —                                                                                     |
| Life Cycle                  |                                |                                               |  |  |  |  |
| Electrical performance      | Rating (max.) (Resistive load) | 50mA 12V DC                                                                                                                      |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | Rating (min.) (Resistive load) | 10μA 1V DC                                                                                                                       |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | Insulation resistance          | 100MΩ min. 100V DC 1min.                                                                                                         |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|                             | Voltage proof                  | 250V AC 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                           | -40℃ 96h                                                                                                                         |                                                                                     | -30℃ 96h                                                                            | -40℃ 96h                                                                              |                                                                                       |
|                             | Dry heat                       | 90℃ 96h                                                                                                                          |                                                                                     | 80℃ 96h                                                                             | 90℃ 96h                                                                               |                                                                                       |
|                             | Damp heat                      | 60℃, 90 to 95%RH 96h                                                                                                             |                                                                                     |                                                                                     | 60℃, 90 to 95%RH 1,000h                                                               |                                                                                       |
| Page                        |                                | 186                                                                                                                              | 188                                                                                 | 193                                                                                 | 195                                                                                   | 242                                                                                   |

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 Conditions | 249 |
| TACT Switch™ Cautions             | 250 |

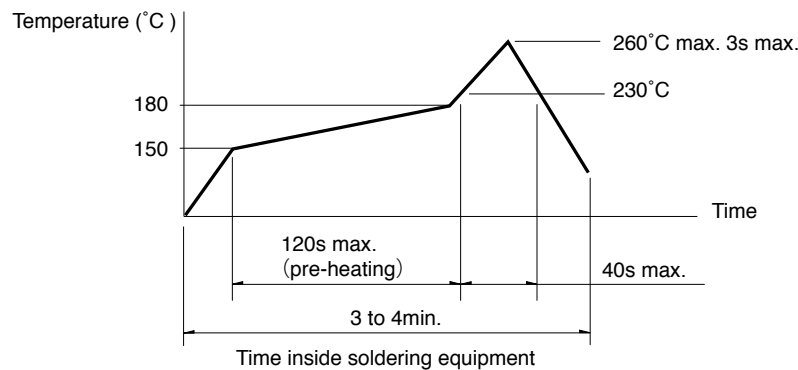
### Notes

- The automotive operating temperature range to be individually discussed upon request.
- Indicates applicability to all products in the series.

## ■ Condition for Reflow

Available for Surface Mount Type.

Temperature profile



### Notes

1. Please confirm the specifications of our product for the detailed condition.
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.

| 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.                                                         |

### SKHH 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. 110°C max. |
| Preheating time        | 60s max.                                                            |
| Soldering temperature  | 260°C max.                                                          |
| Duration of immersion  | 5s max.                                                             |
| Number of soldering    | 2times max.                                                         |

### SKHLTop Push Type, SKQJ 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        | 45s max.                                                            |
| Soldering temperature  | 255°C max.                                                          |
| Duration of immersion  | 5s max.                                                             |
| Number of soldering    | 2times max.                                                         |

### Notes

1. Prevent flux penetration from the top side of the TACT Switch™.
2. Switch terminals and a PC board should not be coated with flux prior to soldering.
3. The second soldering should be done after the switch is stable with normal temperature.
4. Use the flux with a specific gravity of min 0.81.  
(EC-19S-8 by TAMURA CORPORATION, or equivalents.)

## ■ Manual Soldering

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

### SKHH, SKHW Series

| Items                      | Condition  |
|----------------------------|------------|
| Soldering temperature      | 360°C max. |
| Duration of soldering      | 3s max.    |
| Capacity of soldering iron | 60W max.   |

### SKTD, SKTG, SKQJ Series

| Items                      | Condition  |
|----------------------------|------------|
| Soldering temperature      | 350°C max. |
| Duration of soldering      | 3s max.    |
| Capacity of soldering iron | 20W max.   |