TACT Switch™

6.2mm Diameter Round Terminal (Radial Type)

SKRG Series





Round-terminal vertical type with excellent PC board mounting performance.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-Products

Product Line

Product No.	Operating force	Operating direction		•	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Minimum order unit (pcs.)
SKRGAAD010	1.27N	Vertical	0.25	50mA 12V DC	10μA 1V DC	500,000cycles	500m max.	Black	-	2,000
SKRGABD010	1.57N							White		
SKRGACD010	2.55N					200,000cycles		Gray		
SKRGADD010	1.27N					500,000cycles		Black	h=5mm	
SKRGAED010	1.57N							White		
SKRGAFD010	2.55N					200,000cycles		Gray		
SKRGALD010	1.27N					500,000cycles		Black	h=7mm	
SKRGAMD010	1.57N							White		
SKRGAND010	2.55N					200,000cycles		Gray		
SKRGAQD010	1.27N					500,000cycles		Black	h=9.5mm	
SKRGARD010	1.57N							White		
SKRGASD010	2.55N					200,000cycles		Gray		

Sharp Feeling

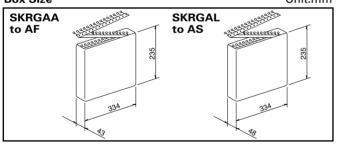
Soft Feeling

Snap-in Type

Surface Mount Type

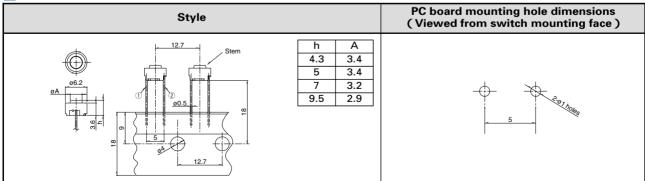
Radial Type

Specification of Radial Taping Package (Taping Packaging for Auto-insertion) Box Size Unit:mm

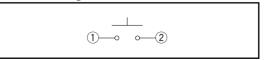


Nulliber of packages(pcs.)					
1 box	1 case /Japan	1 case /export packing			
2,000	20,000	20,000			

Dimensions Unit:mm



Circuit Diagram



Notes

- 1. Please use 1.6mm thick PC boards.
- 2. Please place purchase orders for taping products per minimum order unit (1 reel or a case).

Refer to P.306 for soldering conditions.

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Sharp

Soft **Feeling**

Feeling

Snap-in Type

Surface **Mount Type**

Radial Type

List of Varieties

Sharp Feeling Type

SKRE SKRT SKRV **SKRH** SKQU **SKRG** SKQK SKQN SKRC Series SKSC 444 9 e e 8 B B 888 200 Photo 203 90 Type Radial Surface mount Low-profile Horizontal 4-direction switch + push Round Round terminal **Features** Water-proof Horizontal type tvpe switch terminal type Horizontal type Operating direction Vertical Horizontal W 3.5 3.9 4.5 6.45 7.35 7.3 10 $\phi 6.2$ 6.6 φ9 **Dimensions** D 3.55 6.4 7.5 6.85 (mm) н 1.25 1.5 3.3 4 5 7.1 4.3 5 7.1 13 1N 1 1 \$ \$ Î 1 Operation See the relevant pages for force respective product coverage descriptions **Ground terminal** -20 to +70 SKRV/QK Operating temperature range -30 to +85 Insulation Electrical 100M min. 100V DC resistance Voltage 250V AC for 1min. proof SKSC/RE/RV/RH: 100V AC for 1min. Durability 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, Vibration in the 3 direction of X, Y and Z for 2hours respectively Lifetime Shall be in accordance with individual specifications. Environmental performance

W: Width. The most outer dimension excluding terminal portion.

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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™.....

480

-30 ± 2

 80 ± 2

481

for 96h

for 96h

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 60 ± 2 , 90 to 95%RH for 96h

Note

Cold

Dry heat

Damp heat

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

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Detector

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TACT Switch¹¹

Custom-

Products

Sharp Feeling

Soft

Feeling

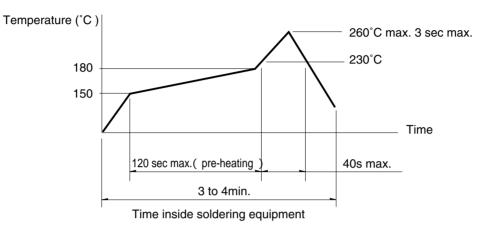
Snap-in Type Surface Mount Type Radial Type

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.

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 \tilde{S} witch 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.)