# TACT Switch™ 0.5mm Height Low-profile (Surface Mount Type)

**SKOR** Series

RoHS

## 4.8×4.8mm with height of 0.5mm. Compact & low-profile.

Detector

Push

Slide

Rotary



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	Minimum order unit (pcs.)	
SKQRAAE010	1.57N	Vertical	0.2	50mA	10 <i>µ</i> A	500,000cycles	100mΩ max.	10.000	
SKQRACE010	2.35N	ventical	0.2	12V DC	1V DC	50,000cycles	Tooms max.	10,000	

## Packing Specifications

Taping **Reel size** Snap-in

 Unit:mm

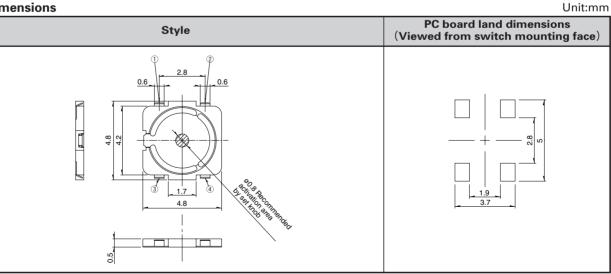
Numbe	er of package	Tape	Export package measurements (mm)		
1 reel	1 reel 1 case /Japan				
10,000	100,000	100,000	12	401×401×214	

## Dimensions

Surface Mount Type Radial Туре

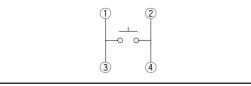
Sharp Feeling Soft Feeling

Туре



Automotive Use

## Circuit Diagram



## Notes

- 1. Please place purchase orders per minimum order unit N (integer).
- 2. For  $\phi$  330mm diameter reel requirements, please contact us.



# List of Varieties

## Sharp Feeling Type

		Series		SKQU	SKQB	SKQE	SKHC	SKRW	SKRM	SKQR	SKRB	SKRR	SKQG	SKSD
Detector	Photo						Ó	۲	۲					
Push	Type Features		Snap–in				Surface mount						<u> </u>	
Slide			4-direction Water-proof switch+push Horizontal Long switch type Life			Low-profile				Low-profile and long life	Low-profile	Double action		
Rotary	o O Vertical				•	•	•	•	•	•	•	•	•	
Encoders	erating	direction Horizontal			•				<u> </u>					
Power			w		11.5							7.5		4.1
Dual-in-line Package Type		Dimensions (mm)		□10	11.9	□12		□3.7	□4.5		□4.8		□5.2	3.9
TACT Switch <sup>™</sup>				7.1	11.3	4	.3	0.35	0.4	0.5	0.55	0.6	0.8	0.6
Custom- Products			1N	See the	•		1				1	\$	<b>↑</b>	See the
	fo	Operation force coverage 5N		relevant pages for respective product descriptions		1	Ļ	1	\$	1			Ļ	relevant pages for respective product descriptions
	Grou	Ground terminal			•									
Sharp Feeling	Operating temperature range		-30℃ to +85℃											
Soft Feeling	per	ទ្ធ្ម Insulation		100MΩ min. 100V DC										
Snap-in Type Surface	Electrical performance	Volt	tance tage oof	250V AC for 1min. SKRW/RM/RB/RR : 100V AC for 1min. 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									100V AC for 1min	
Mount Type Radial		Vibra	ation											
Туре	Durability	Life	time	Shall be in accordance with individual specifications.										
	Environmental performance	Co	old		−30±2°C for 96h									
		Dry	heat	80±2℃ for 96h										
		Damp	o heat	t 60±2℃, 90 to 95%RH for 96h										
	Page		493	288	290	291	293	294	295	296	297	298	300	
					1	1	1	D : [	Depth. The	most oute	er dimens	ion excludi ion excludi on if there	ing termina	al portion.

TACT Switch<sup>™</sup> Soldering Conditions
TACT Switch<sup>™</sup> Cautions
Product Line of Knob for TACT Switch<sup>™</sup>
330

Note

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

## **ALPS**

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-

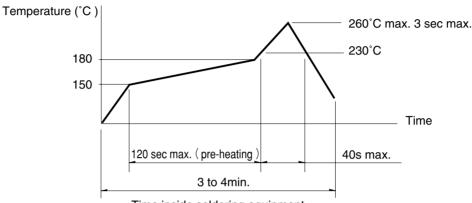
Products

## 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  $\phi$  CA (K) or CC (T) at solder joints (copper foil surface). A heat resistive tape should be used to fix thermocouple.
- 3. Temperature profile



Time inside soldering equipment

#### Notes

- 1. The above temperature shall be measured of the top of switch. 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)

ltems	Condition				
Flux built-up	Mounting surface should not be exposed to fluk				
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.				

## Manual Soldering (Except SKRT Series)

ltems	Condition					
Soldering temperature	350℃max.					
Duration of soldering	3s max.					
Capacity of soldering iron	60W max.					

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

#### Notes

- 1. Consult with us for availability of TACT Switch<sup>™</sup> washing.
- 2. Prevent flux penetration from the top side of the TACT Switch<sup>™</sup>.
- 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.)