## TACT Switch™

# 0.6mm Height Low-profile with Long-life (Surface Mount Type)

**SKRR** Series



A low-profile 0.6mm thick model with long-life of 5 million cycles widely applicable to portable information devices.

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	Minimum order unit (pcs.)
SKRRAAE010	1N							
SKRRABE010	1.6N	Vertical	0.25	50mA 12V DC	10 <i>μ</i> A 1V DC	5,000,000cycles	500mΩ max.	7,000
SKRRACE010	2.0N							

## ■ Packing Specifications

Taping Unit:mm

Reel size

Numbe	er of package	Tape	Export package			
1 reel	1 case /Japan	1 case /export packing	width (mm)	measurements (mm)		
7,000	56,000	56,000	16	401×401×214		

## Sharp Feeling

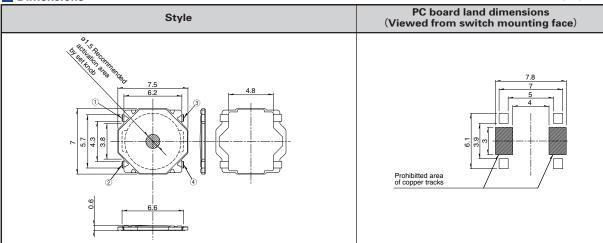
Soft Feeling

Snap-in Type

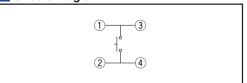
#### Surface Mount Type

Radial Type

## **Dimensions** Unit:mm



### Circuit Diagram



### Notes

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

Refer to P.334 for soldering conditions.

## List of Varieties

#### Sharp Feeling Type

Detector
Push
Slide
Rotary
Encoders
Power
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TACT Switch™
Custom-

Sharp Feeling Soft

**Products** 

Feeling Snap-in Type

Surface Mount Type Radial

Type

Sha	Sharp Feeling Type													
Series		SKQB	SKQE	SKHC	SKSH	SKRW	SKRM	SKRB	SKRR	SKQG	SKSK	SKSD		
Photo						0				<b>O</b>	Ó			
	Туре			Snap-in			Surface mount							
Features		Water-proof Horizontal type	Long —		Low-profile			Low-profile and long life Low-profile D		Double	Double action			
Oper dire	d Oper		_	•	•	•	•	•	•	•	•	•	•	
Operating direction	Horiz	ontal	•	•										
		w	11.5		10	3.3	- □3.7	□4.5	□4.8	7.5	- □5.2	3.5	4.1	
	nsions m)	D	11.9		12	2.9				7		3.2	3.9	
		н	11.3	4	.3	0.	35	0.4	0.55	0.6	0.8	0.6		
Operation force coverage		1N	•	<b>1</b>	1	1	1	<b>1</b>	<b>1</b>	1	1	See the relevant pages for respective product descriptions		
5N Travel (mm)			0.3		0.15			0.15 0.2		See the relevant pages fo respective product descriptions		e product		
Ground terminal					<u>'</u>			-			•			
Operating temperature range		−30°C to +85°C												
Automotive use		•	<u> </u>						_	_				
Insulation resistance		100MΩ min. 100V DC												
Electrical performance	Voltage proof SKSH/RW/RB/RR/SK/SD : 100V AC for 1min.													
Durabili								es,						
Lifetime			Shall be in accordance with individual specifications.											
Envi														
Environmental performance	Dry	heat	80±2°C for 96h											
ental	Damp	heat	t 60±2°C, 90 to 95%RH for 96h											
	Page		292	294	295	297	298	299	300	301	302	304	305	
						1	١٨/٠١	Vidth. The	most sut	or dimonoi	on ovoludi	na tormina	l nortion	

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
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#### Notes

- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. ○marks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40°C to +85°C, ●marks in "Available for automotive use" indicate that all of the series products can work at the operating temperature range from -40°C to +85°C.

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Detector

Push

Slide

**Rotary** 

**Encoders** 

Power

Dual-in-line Package Type

TACT Switch™

Custom-

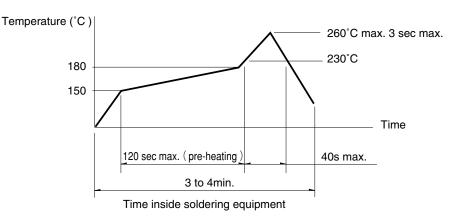
**Products** 

## **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



#### 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, 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°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)

Condition
350°C max.
3s max.
60W max.

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

#### 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.)