# TACT Switch™ 1.5mm Height Sidepush™ (Surface Mount Type)

**SKRE** Series



### Horizontal type with 3.9×3.55×1.5mm dimension.

**Detector** 

Push

Slide

**Rotary** 

**Encoders** 

**Power** 

Dual-in-line Package Type

TACT Switch™

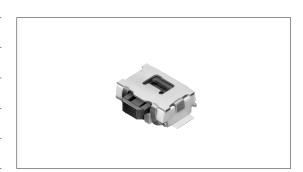
Custom-**Products** 

Sharp Feeling Soft **Feeling** Snap-in

Type Surface **Mount Type** 

Radial

Type



#### Product Line

1 Todate Enio									
Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Guide bosses	Minimum order unit (pcs.)
SKRELHE010	1.57N	- Horizontal	0.2	50mA 12V DC	10 <i>μ</i> A 1V DC	100,000cycles	100m $\Omega$ max.	Without	5,000
SKRELFE010	2.16N								
SKRELJE010	1.57N							With	
SKRELGE010	2.16N	1							

#### Packing Specifications **Taping**

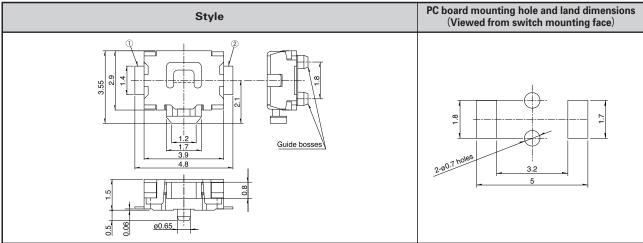
Unit:mm Reel size

ø380

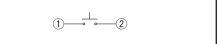
Numbe	er of package	Tape	Export package measurements (mm)		
1 reel	1 case 1 case /Japan /export packi				
5,000	50,000	50,000	12	401×401×214	

#### Dimensions

Unit:mm



#### Circuit Diagram



#### Notes

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

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## **List of Varieties**

#### Sharp Feeling Type

Series		SKHU	SKSC	SKRE	SKRT	SKRV	SKRH	SKQU	SKRG	SKQK	SKQN	SKRC		
Photo				4		٨		ري	• • •	***	18 18 18 18 18 18 18 18 18 18 18 18 18 1	888		
			4166						-			9		
	Туре		Surface mount Radial											
Features		Dust–proof type is available		orofile Ital type	Horizontal type	4–direction switch+push switch		Round terminal type	_	Round terminal Horizontal type	Water– proof			
direction Horizontal		•		_		•	•	•	•	•	_	•		
ating	Horizontal		_	•	•	•						•	_	
		w	6.2	3.5	3.9	4.5	6.45	7.35		46.2	□6.6	7.3	φ9	
	nsions im)	D	6.3		3.55		6.4	7.5	□10	φ6.2		6.85		
		Н	2.5	1.25	1.5	3.3	4	5	7.1	4.3	5	7.1	13	
foi	ration rce erage	1N 5N	1	<b>‡</b>	<b>‡</b>	•	for res	e relevant pective p escriptior	roduct	1	<b>‡</b>	<b>‡</b>	1	
Tra	Travel (mm)		0.25		0.2		See the relevant pages for respective product descriptions				0.25			
Ground terminal				_	•									
Operating		-20°C to +70°C SKRV/QK												
ter	temperature range		-30°C to +85°C											
Auto	motive	use	0							•	_	•	_	
Elec	Insulation resistance		100MΩ min. 100V DC											
Electrical performance	Voltage proof 250V AC for 1min. SKSC/RE/RV/RH: 100V AC for 1min.													
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											
rability	Lifet	time	Shall be in accordance with the individual specification.											
Envi	Co	old	-30±2°C for 96h											
Environmental performance	Dry heat			80±2℃ for 96h										
Damp heat			60±2℃, 90 to 95%RH for 96h											
Page		316	318	319	320	483	484	485	321	323	322	324		

W: Width. The total dimension excluding terminal portion.

- D: Depth. The total dimension excluding terminal portion.
- $\ensuremath{\mathsf{H}}\xspace$  : Height. The minimum dimension if there is difference in product variety.
- TACT Switch™ Soldering Conditions
   TACT Switch™ Cautions
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#### **Notes**

- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. Omarks 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.

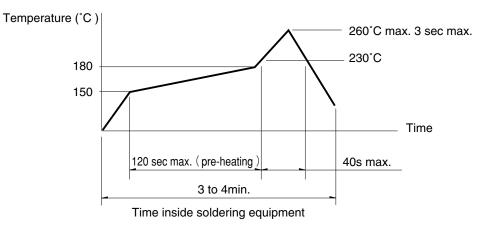
## **Soldering Conditions**

#### 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)

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

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#### **Notes**

- Consult with us for availability of TACT Switch<sup>™</sup> washing.
- 2. Prevent flux penetration from the top side of the TACT Switch  $^{\text{TM}}$ .
- 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.)