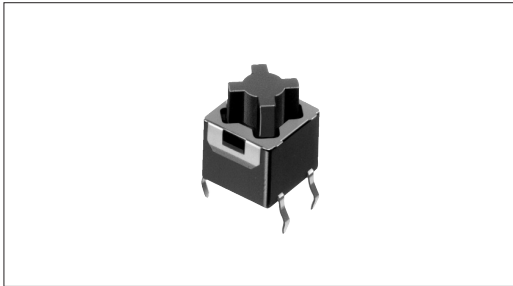


# TACT Switch™ Long-travel with High Operation Force (Snap-in Type)

SKPF Series



8×9mm size. Combination of long travel 1.75mm and high operation force prevents malfunction.



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.)
SKPFACA010	1.96N	Vertical	1.75	5mA 12V DC	10μA 1V DC	100,000cycles	1kΩ max.	1,000
SKPFAAA010	3.92N							

## Packing Specifications

### Bulk

Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
4,000	12,000	309 × 476 × 347

## Dimensions

Unit:mm

Style	PC board mounting hole dimensions (Viewed from switch mounting face)

Sharp Feeling

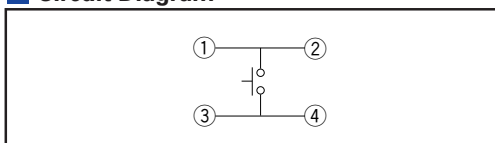
Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

## Circuit Diagram



## Notes

1. Please Using a 1.6mm thick PC board is recommended.
2. Please place purchase orders per minimum order unit N (integer).












Automotive Use

Refer to P.334 for soldering conditions.

# List of Varieties

## Soft Feeling Type

Series		SKEG	SKEG	SKEY	SKPF	SKPM	SKPG	SKPR	SKPL	SKPD	
Photo											
Type		Snap-in				Surface mount			Radial		
Features		—	Horizontal type	—	High operation force and long travel	Low contact resistance	—	High operation force and Low contact resistance	Round terminal and low contact resistance	—	
Operating direction	Vertical	●	—	●	●	●	●	●	●	●	
	Horizontal	—	●	—							
Dimensions (mm)	W	□6	7.5	□7.8	8	5.9	6.6	7.5	φ 6.45	□7.8	
	D		9.9		9	6	6.3	7.8			
	H	7	7.3	5	10	5		6.5	5		
Contact		Carbon				Silver	Carbon	Silver		Carbon	
Operation force coverage		1N	↕	↕	↕	↕	↕	↕	↕	↕	
		5N						●			
Travel (mm)		1		1 1.2	See the relevant pages for respective product descriptions	1.3		1	1.3	See the relevant pages for respective product descriptions	
Ground terminal		—									
Operating temperature range		-20°C to +70°C			-40°C to +90°C						
Automotive use		—		●	●	●	●	●	●	●	
Electrical performance	Insulation resistance	100MΩ min. 100V DC SKEY/PDAC, PDAL, PDAM : 50MΩ min. 100V DC									
	Voltage proof	250V AC for 1min. SKEY/PDAC, PDAL, PDAM : 100V AC for 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 2hours respectively									
	Lifetime	Shall be in accordance with individual specifications.									
Environmental performance	Cold	-30±2°C for 96h									
	Dry heat	80±2°C for 96h									
	Damp heat	60±2°C, 90 to 95%RH for 96h									
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- Detector
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- Power
- Dual-in-line Package Type
- TACT Switch™
- Custom-Products

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

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.

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### Note

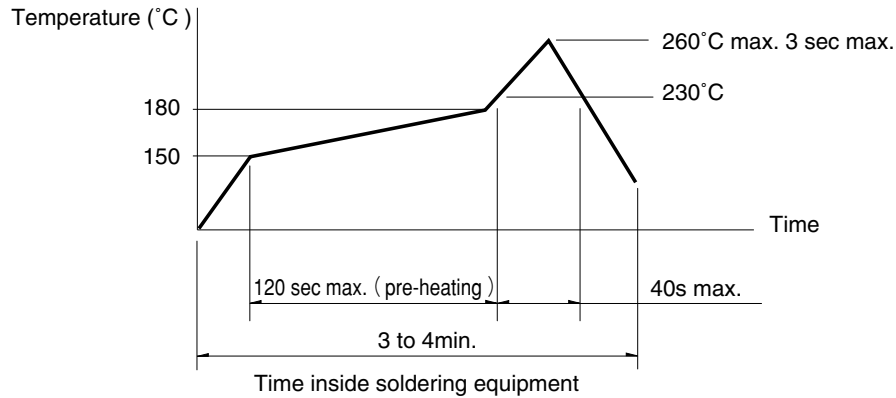
●marks in "Available for automotive use" indicate that all of the series products can work at the operating temperature range from -40°C to +85°C.

## 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 0.2φ 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.

### 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.)

### 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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Sharp  
Feeling

Soft  
Feeling

Snap-in  
Type

Surface  
Mount Type

Radial  
Type