TACT Switch™

Long-travel with Low Contact Resistance (Surface Mount Type)

SKPN Series





1.5mm long-travel with metal contact achieve low-contact resistance.

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.)		Operating life (5mA 5V DC)	Initial contact resistance		Minimum order unit (pcs.)	
SKPNAAE010	1.96N	Vertical	1.5	50mA	10 <i>μ</i> Α	50,000cycles	100m		1,100	
SKPNABE010	2.45N	verticai	vertical 1.5		1V DC	100,000cycles	Toom	max.	1,100	

Specification of Embossed Taping Package (Taping Packaging for Auto-insertion) Unit:mm

Reel Size

Plastic Reel

Num	-			
1 reel	1 case /Japan	1 case /export packing	Tape width (mm)	
1,100	8,800	8,800	16	

Sharp Feeling

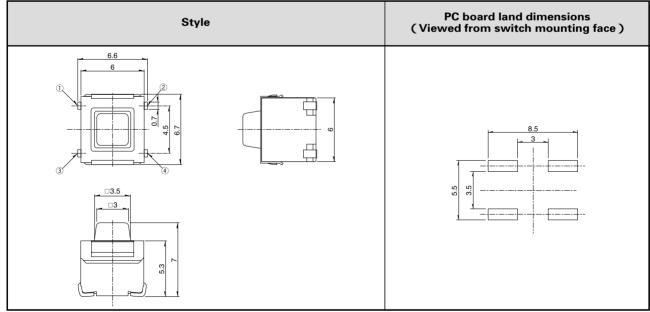
Feeling

Snap-in Type

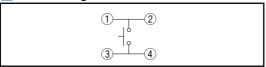
Surface **Mount Type**

Radial Type

Dimensions Unit:mm



Circuit Diagram



Note

- 330mm diameter reel requirements, please contact us.
- 2. Please place purchase orders for taping products per minimum order unit (1 reel or a case).

www.DataSheet4U.com

List of Varieties

Soft Feeling Type

							OVED					
Series		SKEG	SKPE	SKEG	SKEY	SKPF	SKPM	SKPN	SKPG	SKPL	SKPD	
Photo			W.									
Туре			Snapin				Surface mount			Radial		
Features				Horizontal type		High operation force and long stroke		ontact tance		Round terminal and low contact resistance		
Oper	Vert	tical										
Operating direction	Horizontal											
		w		6.6	7.5	- 7.8	8	5.9	6	6.6	- ¢6.45	7.8
Dimen (mr		D	6	6.3	9.9		9	6	6.7	6.3		
		н	7	5	7.3	5	10	5	7		5	
Contact		Carbon				Sil	lver Carbon		Silver	Carbon		
Operation force coverage		1	1	1	1	1	1	\$	1	‡	1	
Grou	ınd terr	ninal										
Operating temperature range		-20 to +70 SKEG -40 to +90										
Insulation 100M min. 100V DC SKEY/PD : 50M min. 100V DC												
Electrical performance	Volt	age oof	250V AC for 1min. SKPN : 200V AC for 1min. SKEY/PD : 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											
Vibration 10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequenci in the 3 direction of X, Y and Z for 2hours respectively Lifetime Shall be in accordance with individual specifications.												
Envi	Co	old	−30 ± 2 for 96h									
Cold -30 ± 2 for 96h												
Damp heat			60 ± 2 , 90 to 95%RH for 96h									
	Page		296	298	296	299	300	301	302	303	304	305
							14/ 14/ 1/1	The second section 4		ncion ovelu		

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.

Product Line of Knob for TACT Switch™......308

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Custom-**Products**

Sharp Feeling Soft **Feeling** Snap-in Type

Surface Mount Type

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Dual-in-line Package Type

TACT Switch¹¹

Custom-

Products

Sharp Feeling

Soft

Feeling

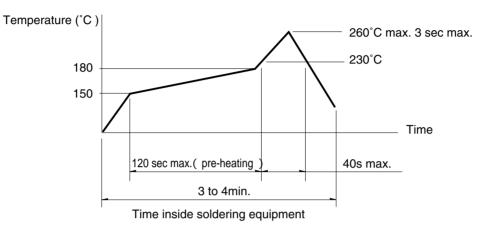
Snap-in Type Surface Mount Type Radial Type

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.)