TACT Switch™

High Operation Force with 5mm Height (Surface Mount Type)

SKPG Series





Low-profile Surface mount type with high operation force most suitable for in-car components.



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

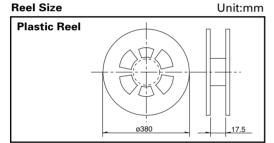
TACT Switch™

Custom-**Products**

Product Line

Product No.	Operating force	Operating direction				Operating life (5mA 5V DC)	Initial contact resistance	Rubber color	Minimum order unit (pcs.)	
SKPGACE010	1.18N							Light blue		
SKPGAAE010	2.45N	Vertical	1.3	5mA 12V DC	10μA 1V DC	50,000cycles	1k max.	Green	1,200	
SKPGABE010	2.94N			12 0 00				Blue		

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



Numl					
1 reel	1 case /Japan	1 case /export packing	Tape width (mm)		
1,200	9,600	9,600	16		

Feeling

Feeling

Snap-in Type

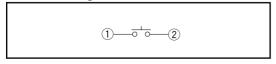
Surface **Mount Type**

Radial Type

Dimensions Unit:mm

Dimensions	Onicinini
Style	PC board land dimensions (Viewed from switch mounting face)
8.6 6.6 Rubber dome	9.8

Circuit Diagram



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

List of Varieties

Soft Feeling Type

Soft reening Type												
Series		SKEG	SKPE	SKEG	SKEY	SKPF	SKPM	SKPN	SKPG	SKPL	SKPD	
Photo			W.			8						
Туре				Snap-in				Surface mount			Radial	
	eature	s			Horizontal type		High operation force and long stroke	Low contact resistance			Round terminal and low contact resistance	
Oper dire	Vert	tical										
Operating direction	Horiz	ontal										
		w	e	6.6	7.5	7.8	8	5.9	6	6.6	- φ6.45	7.0
Dimer (m		D	- 6	6.3	9.9		9	6	6.7	6.3		7.8
		н	7	5	7.3	5	10	5	7		5	
(Contact	t			Carbon			Sil	ver	Carbon Silver Carbo		
Operation force coverage 5N		1	1	1	1	1	1	‡	1	‡	\uparrow	
Ground terminal												
Operating temperature range		-20 to +70 SKEG -40 to +90										
Insulation resistance SKEY/PD: 50M min. 100V DC												
Electrical performance	Volt		250V AC for 1min. SKPN : 200V AC for 1min. SKEY/PD : 100V AC for 1min.									
	Vibra	ation	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 frequency in the 3 direction of X, Y and Z for 2hours respectivel Shall be in accordance with individual specifications							ations.					
Envi per	Co	old	-30 ± 2 for 96h									
Environmenta performance	Dry	heat	80 ± 2 for 96h									
Damp heat 60 ± 2 , 90 to 95%RH for 96h												
Page			296	298	296	299	300	301	302	303	304	305

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 Detector

Push

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Dual-in-line Package Type

TACT Switch™

Custom-**Products**

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

Surface Mount Type Radial

Type

Detector

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Dual-in-line Package Type

TACT Switch¹¹

Custom-

Products

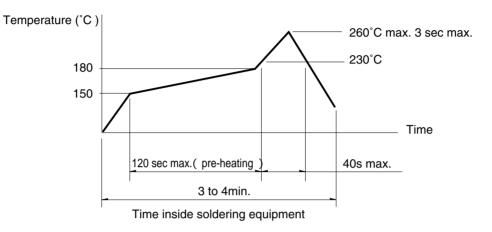
Snap-in Type Surface Mount Type Radial Type

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.

Sharp Feeling 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 \widetilde{Switch}^{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.)