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



Product Line

Dual-in-line Package Type	Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Minimum order unit (pcs.)
TACT Switch [™]	SKPNAAE010	1.96N	Vertical	1.5	50mA 16V DC	10µA 1V DC	50,000cycles	– 100m max.	1,100
	SKPNABE010	2.45N					100,000cycles		

Custom-Products

Sharp Feeling

Soft Feeling Snap-in

Туре Surface

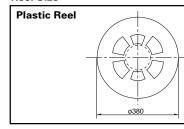
Mount Type

Radial Туре

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

17.5

Reel Size Unit:mm

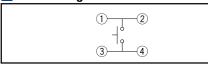


Num	Tana addab			
1 reel	1 case /Japan	1 case /export packing	Tape width (mm)	
1,100	8,800	8,800	16	

Dimensions

Unit:mm PC board land dimensions Style (Viewed from switch mounting face) 6.6 6 5.5 3.5 13 F 5.3

Circuit Diagram



Note

1. For 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

	Series		SKEG	SKPE	SKEG	SKEY	SKPF	SKPM	SKPN	SKPG	SKPL	SKPD	
Photo													
	Туре				Snap–in			Surface mount				Radial	
F	eature	s			Horizontal type		High operation force and long stroke		ontact tance		Round terminal and low contact resistance		
Ope	Vert	tical											
Operating	Horiz	ontal		1			11			1			
		w		6.6	7.5		8	5.9	6	6.6	10.15		
imer (m	nsions m)	D	6	6.3	9.9	7.8	9	6	6.7	6.3	φ6.45	7.8	
		н	7	5	7.3	5	10	5	7		5		
	Contact	t			Carbon			Sil	ver	Carbon	Silver	Carbon	
Operation force coverage		1N	ţ	↓ ↓	Ĵ	ţ	Ĵ	ţ	¢	↓ ↓	¢	Ì	
		5N											
rou	nd terr	ninal											
	peratin nperati						-20 to +	70 SKEC	3				
	range						-40 to	+ 90					
Performance Voltage proof			100M min. 100V DC SKEY/PD : 50M min. 100V DC										
			250V AC for 1min. SKPN : 200V AC for 1min. SKEY/PD : 100V AC for 1min.										
Durability	Lifetime Shall be in accordance with individual specifications.												
	Co	ld	-30 ± 2 for 96h										
Environmenta	Dry	heat	80 ± 2 for 96h										
ental	Damp	heat		60 ± 2 , 90 to 95%RH for 96h									
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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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Soldering Conditions

Condition for Reflow

Available for Surface Mount Type.

1. Heating method: Double heating method with infrared heater.

Temperature (°C)

180

150

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

S	ı	i	Ы	0
	•	•	u	c

Push

Detector

Rotary

Encoders

Power

Dual-in-line

Package Type

TACT Switch[™]

Custom-Products

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.

3 to 4min.

Time inside soldering equipment

120 sec max.(pre-heating

2. Soldering conditions differ depending on reflow soldering machines. Prior verification of soldering condition is highly recommended.

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

Conditions for Auto-dip

Available for Snap-in Type and Radial Type

(Except SKHJ, SKHL, SKQJ, SKQK, SKEG series)

ltems	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)

ltems	Condition				
Soldering temperature	350 max.				
Duration of soldering	3s max.				
Capacity of soldering iron	60W max.				

260°C max. 3 sec max.

Time

230°C

40s 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.)

