Compact size of 2.8 × 2.4 Surface Mount Type Equipped With Projection

SKSF Series



Compact 2.8×2.4 projection structure helps prevent deterioration in the sharpness of the operating feel, which can be caused by misalignment in assembling.



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

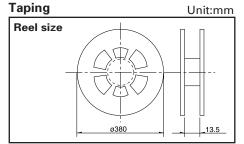
TACT Switch™

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.)
SKSFABE01	1.6N	Vertical	0.1	50mA 12V DC	10μA 1V DC	100,000cycles	100m Ω max.	20,000

Packing Specifications



Numbe	er of package	Tape	Export package			
1 reel	1 case /Japan	1 case /export packing	width (mm)	measurements (mm)		
20,000	200,000	200,000	12	401×401×214		

Sharp Feeling

Feeling Snap-in

Type **Surface**

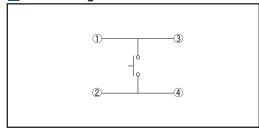
Mount Type

Radial Type

Dimensions Unit:mm

Style		PC board land dimensions (Viewed from switch mounting face)
2.9 2.8 2.6 2.6 39 01	21	2.1

Circuit Diagram



Notes

- 1. Please place purchase orders per minimum order unit N
- 2. For ϕ 330mm diameter reel requirements, please contact us.

Refer to P.334 for soldering conditions.

List of Varieties

Sharp Feeling Type

- Cili	arp ree	Jillig I											
Series		SKRN	SKSE	SPEE	SKSF	SKSG	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM	
Photo			0:	STATE OF THE PARTY		Ŷ	C.						
Туре			Surface mount										
Features		Double action			Compact size Low-profile	High operation force Compact size	Compact size High operation force Low-profile Compact size Compact size		Middle travel	_			
Opei dire	Ver	tical	•	_	_	•	•	•	•	•	•	•	•
Operating direction	Horizontal		_	•	•						1	-	
		w		5.9	4	2.8	3	3.9	4.2	6	6.1		6.2
	nsions im)	D	□6	2.87	5	2.4	2.7	2.9	3.2	3.5	3.7	- □6.2	6.5
		н	0.9	3	1.22	0.65	1.4	1.5	2.5	4.3	2.5	3.4	3.1
Operation force coverage		1N 5N	See the relevant pages for respective product descriptions		•	1	\$	1	1	1	1	1	
Travel (mm)		See the relevant pages for respective product descriptions			0.1	0.12	O.13 O.2 O.25 See the relevant pages for respective product descriptions			0.25			
Ground terminal		•	_			•		_		•	_	•	
Operating temperature range		-30°C to	+85°C	-10°C to +60°C	-30				30°C to +85°C				
Automotive use					_	0	_	•	•	•	0	_	
Insulation resistance		100MΩ 100\		10MΩ min. 100V DC	100M() min 100M()								
Electrical performance	Volt		250V AC for 1min.		100V AC	C for 1min. 250V AC for 1min.							
D	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 in the 3 direction of X, Y and Z for 2hours respective. Lifetime Shall be in accordance with individual specification.						ons.							
Envi	Co	old	-30±2℃	for 96h	-40±2°C for 96h	-30±2℃ for 96h							
Environmental performance	Dry heat			80±2°C for 96h									
ental ince	Damp	heat	60±2℃ 95%RH	, 90 to for 96h	40±2°C, 90 to 95%RH for 96h								
	Page		306	307	102	308	309	310	311	312	313	314	315
												•	

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.

- TACT Switch™ Soldering Conditions
 TACT Switch™ Cautions
 334

Notes

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

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

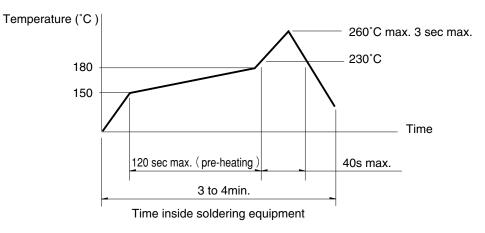
Soldering Conditions

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.

■ Manual Soldering (Except SKRT Series)

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

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

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TACT Switch™

Custom-

Products

Notes

- Consult with us for availability of TACT Switch[™] 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.)