6.1×3.7mm Compact High-speed Mounting (Surface Mount Type)

SKQY Series



Compact switch with contact sealing structure, also available with ground terminal.



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**

Product Line

Vertical 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.)
SKQYACE010	0.98N							
SKQYAAE010	1.57N	Vertical	0.25	50mA	10 <i>μ</i> Α	50,000cycles	500m Ω	3,000
SKQYABE010	2.55N	vertical	0.25	12V DC	1V DC	50,00000,0165	max.	3,000
SKQYAFE010	3.14N							

With Ground Terminal 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.)
SKQYPCE010	0.98N							
SKQYPAE010	1.57N	Vertical	0.25	50mA	10 <i>μ</i> Α	50,000cycles	500m Ω	3,000
SKQYPBE010	2.55N	vertical	0.25	12V DC	1V DC	50,000cycles	max.	3,000
SKQYPDE010	3.14N							

Feeling

Soft **Feeling**

Snap-in **Type**

Surface **Mount Type**

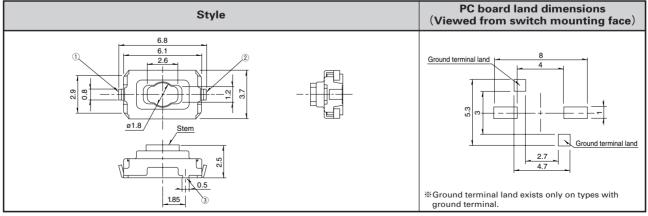
Radial Type

Packing Specifications Taping Unit:mn						
Reel size						

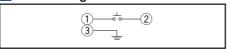
Numbe	er of package	Tape	Export package		
1 reel	1 case 1 case /Japan /export packin		width (mm)	measurements (mm)	
3,000	30,000	30,000	12	401×401×214	

Dimensions

Unit:mm



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.328 for soldering conditions.

List of Varieties

■ Sharp Feeling Type

	Sharp Feeling Type													
	Series		SKRN	SKSE	SPEE	SKSF	SKSG	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM	
Photo				STATE OF THE PARTY	0		0							
Туре			Surface mount											
Features		Double action			Compact size Low-profile	High operation force Compact size	Compact size High operation force Low-profile Compact size		act size	Middle travel	_			
O Vertical		•	• -		•	•	•	•	•	•	•	•		
rating	Operation Horizonta		_	•	•				_	_	ı	ı		
		w	□6	5.9	4	2.8	3	3.9	4.2	6	6.1		6.2	
Dimer (m	nsions m)	D		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			relevant pa product de		1	‡	‡	1	1	1	1	1		
Ground terminal		•				_				•	_	•		
Operating temperature range		-30°C to	o +85°C	-10℃ to +60℃	-30°C to +85°C									
Electrical performance	Insul resist		100M (100\		10M Ω min. 100V DC	100M Ω min. 100V DC								
trical mance	Woltage proof			250V AC for 1min. (SE : 100V AC for 1min. 250V AC for 1min.										
				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										
Durability	Lifet	time	Shall be in accordance with individual specifications.											
Cold -30±2°C for 96h														
Environmental performance	Dry	Dry heat 80±2℃ for 96h 85 fo				80±2℃ for 96h								
ental nce	Damp heat		60±2℃ 95%RH		40±2℃, 90 to 95%RH for 96h			60±2	.°C, 90 to 9	95%RH fc	or 96h			
	Page		301	302	107	303	304	305	306	307	308	309	310	

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™ 330

Note

The automotive operating temperature range to be individually discussed upon request.

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TACT Switch™

Custom-**Products**

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

Surface Mount Type Radial

Type

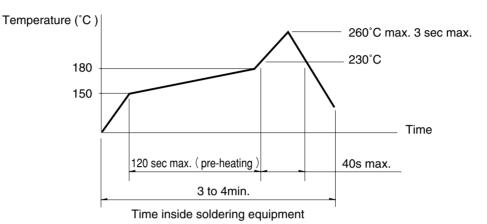
Soldering Conditions

Condition for Reflow

Available for Surface Mount Type.

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2 ϕ 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 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°C max.				
Duration of immersion	5s max.				
Number of soldering	2times max.				

Manual Soldering (Except SKRT Series)

Items	Condition			
Soldering temperature	350°C max.			
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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Custom-

Products

Notes

- 1. 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.)