TACT Switch™

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	10μA 1V DC	50,000cycles	500mΩ max.	3.000
SKQYABE010	2.55N	vertical	0.25	12V DC				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 max.	3,000
SKQYPBE010	2.55N	vertical	0.25	12V DC	1V DC			
SKQYPDE010	3.14N							

Sharp Feeling

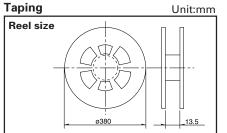
Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

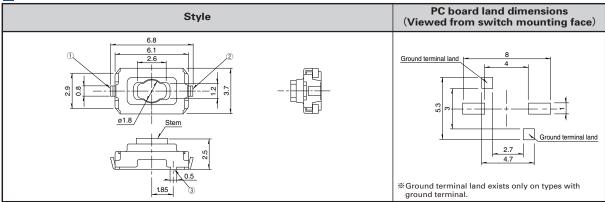
Packing Specifications



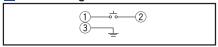
Numbe	er of package	s(pcs.)	Tape	Export package
1 reel	1 case /Japan	1 case /export packing	width (mm)	measurements (mm)
3,000	30,000	30,000	12	401×401×214

Dimensions

Unit:mm



Circuit Diagram



Notes

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

Refer to P.334 for soldering conditions.

List of Varieties

Sharp Feeling Type

- 0110	прісс	9 .	71											
	Series		SKRN	SKSE	SPEE	SKSF	SKSG	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM	
Photo			:0:	Sale.	۹					*	9			
	Туре			Surface mount										
F	eature	s	Double action	Horizontal type Double action		Compact size Low-profile	High operation force Compact size			Compact size		Middle travel	_	
Oper dire	Vert	tical	•	_	_	•	•	•	•	•	•	•	•	
Operating direction	Horiz	ontal	_	•	•							-		
		w		5.9	4	2.8	3	3.9	4.2	6	6.1		6.2	
Dimer (m	nsions m)	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		relevant pa product de		•	\uparrow	‡	1	1	1	1	1	
Travel (mm)				relevant pa		0.1	0.12	0.13	0.2	O.2 O.25 See the relevant pages for respective product descriptions		pages for respective	0.25	
Ground terminal		ninal	•	_		_	•		_		•	_	•	
Operating temperature range			-30°C to	+85°C	-10°C to +60°C	-30°C to +85°C								
Automotive use			_			_ 0 - • • 0						0	_	
Elec	Insula resist		100MΩ min. 100V DC 100V DC 100V DC 100MΩ min. 100V DC											
Electrical performance	Volt		250V AC for 1min. 250V AC for 250V AC for 1min. 250V AC for 100V A						for 1min.	min.				
	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											
Durability	Lifet	time	Shall be in accordance with individual specifications.											
Envi per	Co	old	$-30\pm2^{\circ}$ C for 96h $-40\pm2^{\circ}$ C for 96h $-30\pm2^{\circ}$ C for 96h											
Environmental performance	Dry	heat	80±2℃	for 96h	85±2℃ for 96h				80±2℃	for 96h				
ental nce	Damp	heat	60±2°C 95%RH	, 90 to for 96h	40±2°C, 90 to 95%RH for 96h			60±2	2°C, 90 to	95%RH fo	or 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.

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

IACI	SWILCH	Cautions									
Produ	ct Line of	Knobs for T	ACT S	Switch™	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••

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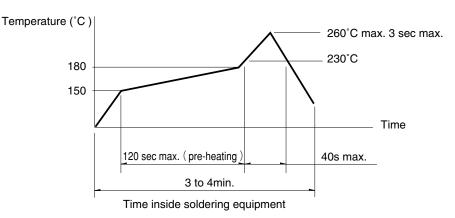
Products

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

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.)