TACT Switch™ 12mm Square Long-life (Snap-in Type)

SKQE Series



Long-life type with unique dust-proof structure and highly reliable metal contacts.



Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**

Product Line

Product No.	Operating force	Operating direction		Rating (max.)		Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Variety	Minimum order unit(pcs.)	Drawing No.
SKQEAAA010	1.57N							Dark gray	Joint		1
SKQEACA010	2.55N	· Vertical	0.3	50mA	1 ,	10,000,000 cycles	100m max.	Red	stem	- 1,000 -	'
SKQEABA010	1.57N		0.3	12V DC				Dark gray	Flat stem		2
SKQEADA010	2.55N							Red			2

Dimensions Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)		
1	Joint stem type	3 3 Stem Guide bosses 12.5 14	4-ø1.25 holes 2-ø1.7 holes		
2	Flat stem type	Guide bosses Stem	4-ø1.25 holes 2-ø1.7 holes		

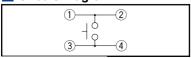
Feeling Soft

Feeling Snap-in Type

Surface Mount Type Radial

Type

Circuit Diagram



Please use 1.6mm thick PC boards.

Refer to P.306 for soldering conditions. Refer to P.308 for standard knobs.

SKRR

Low-profile and long life

7.5

7

\$

SKQG

Low-profile

5.2

8.0

List of Varieties

Sharp Feeling Type

Operating

temperature

range

Electrical

Durability

Environmental performance

Insulation

resistance

Voltage

proof

Vibration

Lifetime

Cold

SKQU SKQB SKQE SKHC **SKRM** Series **SKHK SKRW SKQR SKRB** Photo Type Snap-in Surface mount Water-proof Horizontal type 4-direction Long Long **Features** Low-profile switch + push Stem switch Operating direction Vertical Horizontal W 11.5 10 12 3.7 4.5 4.8 **Dimensions** D 11.9 (mm) н 7.1 11.3 4.3 12 0.35 0.5 0.55 1N See the 1 relevant 1 1 1 Operation pages for force respective coverage product descriptions **Ground terminal**

Sharp Feeling Soft Feeling

Detector

Push

Slide

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Encoders

Power

Dual-in-line

Package Type

TACT Switch™

Custom-Products

Snap-in Type Surface

Mount Type
Radial
Type

-30	to	+ 85

100M min. 100V DC

250V AC for 1min. SKRW/RM/RB/RR : 100V 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

Shall be in accordance with individual specifications.

: Depth. The most outer dimension excluding terminal portion.

-30 ± 2 for 96h

Dry heat 80 ± 2 for 96h

Damp heat 60 ± 2 , 90 to 95%RH for 96h

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 W : Width. The most outer dimension excluding terminal portion.

Product Line of Knob for TACT Switch™......308

Note

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

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch¹¹

Custom-

Products

Sharp Feeling

Soft

Feeling

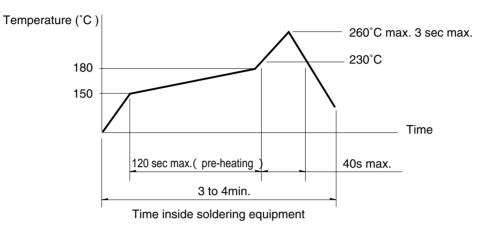
Snap-in Type Surface Mount Type Radial Type

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 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.

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 \tilde{S} witch 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.)

Product Line of Knobs

Unit:mm

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

Anniinalda madal	Dimensions -		Variety			Label dimensions
Applicable model	ווט	mensions	Color	Мо	del	(Unit:mm)
			Keytop			
SKHH Applicable to joint stem type		2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Red Blue Ivory Black Yellow	SK2AA00410 SK2AA00420 SK2AA00430 SK2AA00440 SK2AA00450		
				Сар		
		0 0	Clear	SK2AA00510		□10
SKHC SKQE		Cap Key top		Keytop	Keytop + Cap	, ret
Applicable to joint stem type			Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090	Thickness 0.1
				Сар		
		Szess Mide	Clear	SK2AA00520		=0.5
SKHJ		Cap	Keytop		Keytop + Cap	□6.5
		Key top	Red Blue Ivory Black Yellow	SK2AA00210 SK2AA00220 SK2AA00230 SK2AA00240 SK2AA00250	SK2AA00260 SK2AA00270 SK2AA00280 SK2AA00290 SK2AA00300	Thickness 0.1
				Сар		
		91 4.	Clear	SK2AA00540		
SKEG		Cap	Keytop		Keytop+Cap	LED 5
Applicable to joint stem type		Key top	Red Blue Ivory Black Yellow	SK2AA00310 SK2AA00320 SK2AA00330 SK2AA00340 SK2AA00350	SK2AA00360 SK2AA00370 SK2AA00380 SK2AA00390 SK2AA00400	Thickness 0.1

Notes

- The knob will be delivered together with the switch but packed separately.
 The label is not included.
- 3. For SK2AA00010 to SK2AA00090 types, please check the mounting direction.

