

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



Typical Specifications



Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	100mΩ max.
Travel (mm)	0.3

Product Line

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Stem	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
SKQEAAA010	1.57N	Top push	10,000,000 cycles	Dark gray	Joint stem	1,000	1,000	1
SKQEACA010	2.55N			Red				
SKQEABA010	1.57N			Dark gray	Flat stem			2
SKQEADA010	2.55N			Red				

Packing Specifications

Bulk

Number of packages (pcs.)		Export package measurements (mm)
1 case / Japan	1 case / export packing	
4,000	12,000	309×476×347

Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1			

Refer to P.249 for soldering conditions.

SKQE 12mm Square Long-life (Snap-in Type)

TACT Switch™

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

■ Dimensions

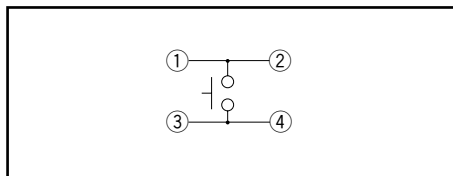
Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
2			

Note

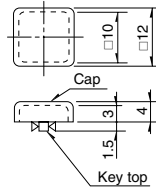
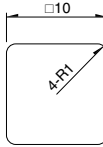
Please use 1.6mm thick PC boards.

■ Circuit Diagram



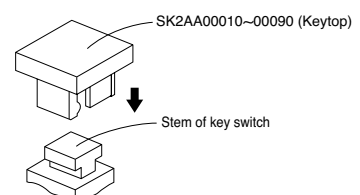
■ Product Line of Knobs

Unit:mm

Applicable model	Dimensions		Variety			Label dimensions	
			Color	Model			
SKQE Applicable to joint stem type			Cap				
			Clear	SK2AA00510			
			Keytop		Keytop + Cap		
			Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090		

Notes

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



TACT Switch™

List of Varieties

TACT Switch™

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type

Type		Sharp Feeling Type						
		Snap-in						
Series		SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC
Photo								
Features		—	—	—	—	—	Long-life	—
Water-proof		—	—	—	—	●	—	—
Dust-proof		—	—	●	●	●	●	—
IP standard		—	—	—	—	—	—	—
Operating direction	Top push	●	●	●	●	●	●	●
	Side push	—	—	—	—	—	—	—
Dimensions (mm)	W	6	□6		□6.6	□10	□12	
	D	3.5						
	H	4.3/5	See the relevant pages for respective product descriptions		4.3/5	5	5/13/23.2	See the relevant pages for respective product descriptions
Operation force coverage	1N max.							
	1N to 2N							
	2N to 3N							
	3N to 4N							
	4N to 5N							
Travel (mm)		0.25		0.3	0.25	0.3		
Ground terminal		—	●	—	—	—	—	—
Operating temperature range		-40℃ to +90℃			-20℃ to +70℃	-40℃ to +90℃		-40℃ to +85℃
Automotive use		●	●	—	—	●	—	—
Life Cycle								
Electrical performance	Rating (max.) (Resistive load)	50mA 12V DC						
	Rating (min.) (Resistive load)	10μA 1V DC						
	Insulation resistance	100MΩ min. 100V DC 1min.						
	Voltage proof	250V AC 1min.						
Durability	Vibration	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 2 hours respectively						
	Lifetime	Shall be in accordance with individual specifications.						
Environmental performance	Cold	-40℃ 96h			-30℃ 96h	-40℃ 96h		
	Dry heat	90℃ 96h			80℃ 96h	90℃ 96h		
	Damp heat	60℃, 90 to 95%RH 96h				60℃, 90 to 95%RH 1,000h	60℃, 90 to 95%RH 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.

TACT Switch™ Soldering Conditions 249
TACT Switch™ Cautions 250

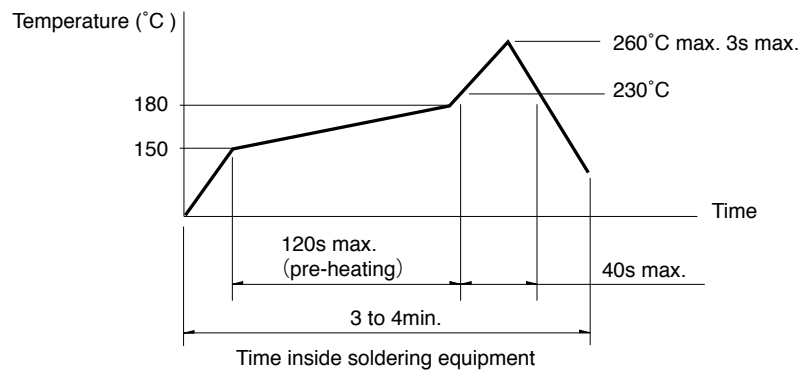
Notes

1. The automotive operating temperature range to be individually discussed upon request.
2. ● Indicates applicability to all products in the series.

■ Condition for Reflow

Available for Surface Mount Type.

Temperature profile



Notes

1. Please confirm the specifications of our product for the detailed condition.
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.

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
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.

SKHH Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 110°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKHLTop Push Type, SKQJ Series

Items	Condition
Flux built-up	Mounting surface should not be exposed to flux
Preheating temperature	Ambient temperature of the soldered surface of PC board. 100°C max.
Preheating time	45s max.
Soldering temperature	255°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

Notes

1. Prevent flux penetration from the top side of the TACT Switch™.
2. Switch terminals and a PC board should not be coated with flux prior to soldering.
3. The second soldering should be done after the switch is stable with normal temperature.
4. Use the flux with a specific gravity of min 0.81.
(EC-19S-8 by TAMURA CORPORATION, or equivalents.)

■ Manual Soldering

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

SKHH, SKHW Series

Items	Condition
Soldering temperature	360°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

SKTD, SKTG, SKQJ Series

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	20W max.