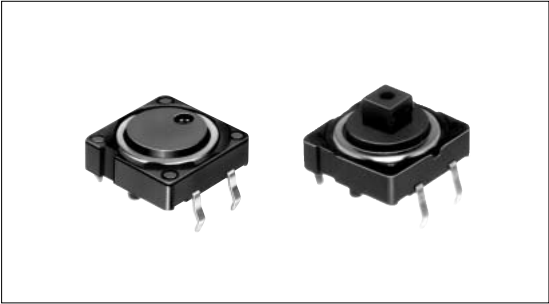


TACT Switch™
12mm Square(Snap-in Type)
SKHC Series



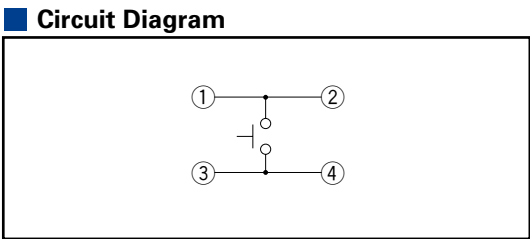
Joint stem & flat stem with stable operation feeling.



Product Line											
Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Variety	Minimum order unit (pcs.)	Drawing No.
SKHCBJA010	0.74N	Vertical	0.3	50mA 12V DC	10μ A 1V DC	500,000 cycles	100mΩ max.	Blue	Joint stem	1,000	1
SKHCBEA010	1.27N					1,000,000 cycles		Black			
SKHCBGA010	2.55N					500,000 cycles		Dark gray			
SKHCBKA010	0.74N							Blue	Flat stem		2
SKHCBFA010	1.27N							1,000,000 cycles			
SKHCBHA010	2.55N					500,000 cycles		Dark gray			

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

Dimensions			Unit:mm
No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	Joint stem type		
2	Flat stem type		



Note
Please use 1.6mm thick PC boards.

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

List of Varieties

Sharp Feeling Type

Series			SKQU	SKQB	SKQE	SKHC	SKHK	SKRW	SKRM	SKQR	SKRB	SKRR	SKQG
Photo													
Type			Snap-in						Surface mount				
Features			4-direction switch + push switch	Water-proof Horizontal type	Long Life	—	Long Stem	Low-profile				Low-profile and long life	Low-profile
Operating direction	Vertical		●	—	●	●	●	●	●	●	●	●	●
	Horizontal		—	●	—								
Dimensions (mm)		W	□ 10	11.5	□ 12			□ 3.7	□ 4.5	□ 4.8		7.5	□ 5.2
		D		11.9								7	
		H	7.1	11.3	4.3		12	0.35	0.4	0.5	0.55	0.6	0.8
Operation force coverage			See the relevant pages for respective product descriptions	●	↕	↕	●	↕	↕	↕	↕	↕	↕
1N 5N													
Ground terminal			—										
Operating temperature range			-30 to +85										
Electrical performance	Insulation resistance		100MΩ min. 100V DC										
	Voltage proof		250V AC for 1min. SKRW/RM/RB/RR : 100V AC for 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 2hours respectively										
	Lifetime		Shall be in accordance with individual specifications.										
Environmental performance	Cold		-30 ± 2 for 96h										
	Dry heat		80 ± 2 for 96h										
	Damp heat		60 ± 2 , 90 to 95%RH for 96h										
Page			482	265	267	268	270	271	272	273	274	275	276

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 Conditions306
- TACT Switch™ Cautions307
- Product Line of Knob for TACT Switch™308

Note

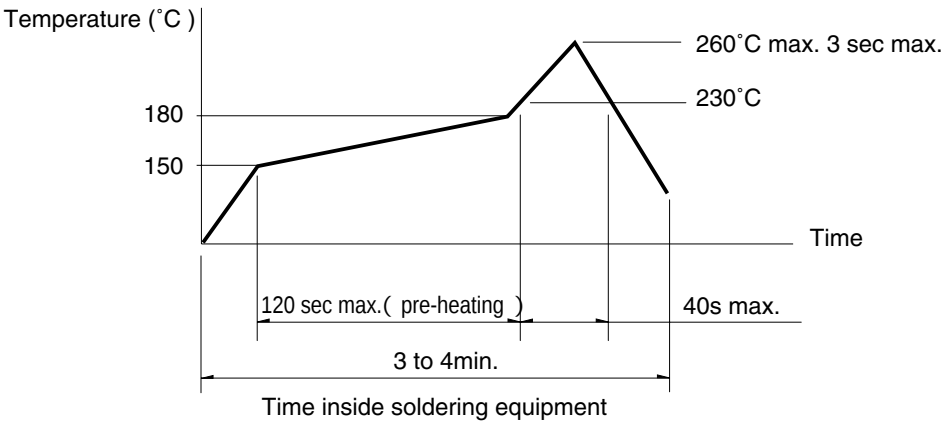
The automotive operating temperature range to be individually discussed upon request.

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



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 flux
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)

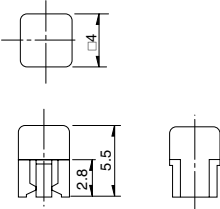
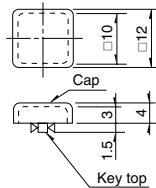
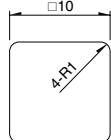
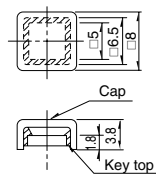
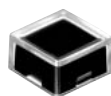
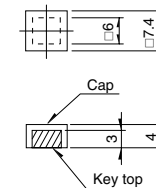
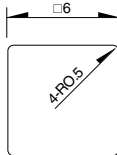
Items	Condition
Soldering temperature	350 max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

Notes

- 1. Consult with us for availability of TACT Switch™ washing.
- 2. Prevent flux penetration from the top side of the TACT 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.)

Product Line of Knobs

Unit:mm

Applicable model	Dimensions		Variety			Label dimensions (Unit:mm)	
			Color	Model			
SKHH			Keytop				
Applicable to joint stem type			Red Blue Ivory Black Yellow	SK2AA00410 SK2AA00420 SK2AA00430 SK2AA00440 SK2AA00450			
SKHC SKQE			Cap				
			Clear	SK2AA00510			
			Applicable to joint stem type	Keytop		Keytop + Cap	Thickness 0.1
				Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090	
SKHJ			Cap				
			Clear	SK2AA00520			
				Keytop		Keytop + Cap	Thickness 0.1
				Red Blue Ivory Black Yellow	SK2AA00210 SK2AA00220 SK2AA00230 SK2AA00240 SK2AA00250	SK2AA00260 SK2AA00270 SK2AA00280 SK2AA00290 SK2AA00300	
SKEG			Cap				
			Clear	SK2AA00540			
			Applicable to joint stem type	Keytop		Keytop + Cap	Thickness 0.1
				Red Blue Ivory Black Yellow	SK2AA00310 SK2AA00320 SK2AA00330 SK2AA00340 SK2AA00350	SK2AA00360 SK2AA00370 SK2AA00380 SK2AA00390 SK2AA00400	

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.

