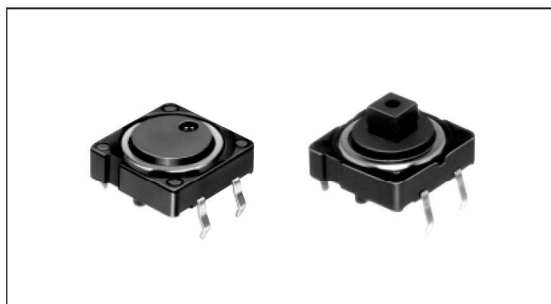


TACT Switch™ 12mm Square(Snap-in Type) SKHC Series



Joint stem & flat stem with stable operation feeling.

Detector
Push
Slide
Rotary
Encoders
Power
Dual-in-line
Package Type



TACT Switch™
Custom-Products

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	100m Ω 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					1,000,000 cycles		Blue	Flat stem		2
SKHCBFA010	1.27N					500,000 cycles		Black			
SKHCBHA010	2.55N							Dark gray			

Sharp Feeling
Soft Feeling
Snap-in Type

Packing Specifications

Bulk

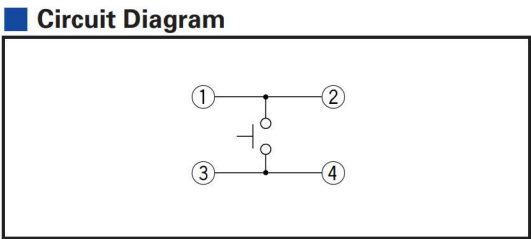
Number of packages (pcs.)		Export package measurements (mm)
1 case /Japan	1 case /export packing	
5,000	15,000	309×476×347

Note

Please place purchase orders per minimum order unit N (integer).

Refer to **P.328** for soldering conditions.
Refer to **P.330** 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	SKRW	SKRM	SKQR	SKRB	SKRR	SKQG	SKSD
Photo												
Type		Snap-in				Surface mount						
Features		4-direction switch+push switch	Water-proof Horizontal type	Long Life	—	Low-profile			Low-profile and long life	Low-profile	Double action	
Operating direction	Vertical	●	—	●	●	●	●	●	●	●	●	●
	Horizontal	—	●	—							—	
Dimensions (mm)	W	□10	11.5	□12		□3.7	□4.5	□4.8		7.5	□5.2	4.1
	D		11.9							7		3.9
	H	7.1	11.3	4.3		0.35	0.4	0.5	0.55	0.6	0.8	0.6
Operation force coverage		1N	See the relevant pages for respective product descriptions	●	↕	↕	↕	↕	↕	↕	↕	See the relevant pages for respective product descriptions
		5N										
Ground terminal		—										●
Operating temperature range		-30°C to +85°C										
Electrical performance	Insulation resistance	100MΩ min. 100V DC										
	Voltage proof	250V AC for 1min. SKRW/RM/RB/RR : 100V AC for 1min.										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°C for 96h										
	Dry heat	80±2°C for 96h										
	Damp heat	60±2°C, 90 to 95%RH for 96h										
Page		493	288	290	291	293	294	295	296	297	298	300

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 Conditions328
- TACT Switch™ Cautions329
- Product Line of Knob for TACT Switch™330

Note

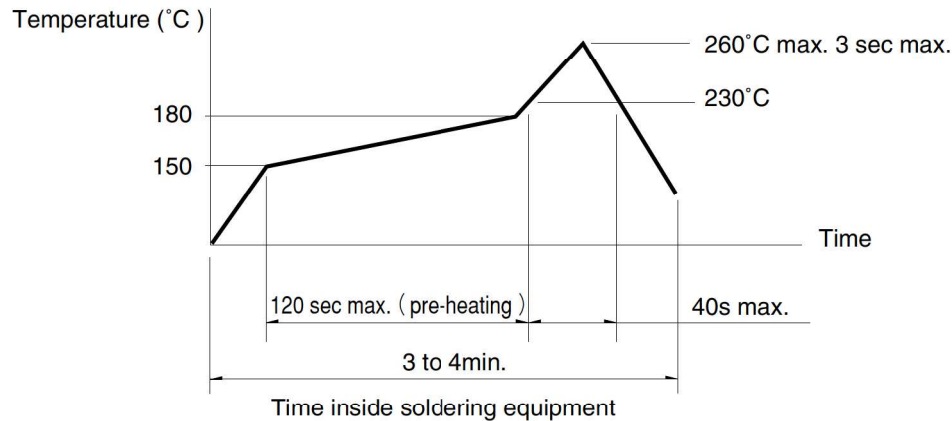
The automotive operating temperature range to be individually discussed upon request.

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



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 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.

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.)

Manual Soldering (Except SKRT Series)

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

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
Products

Sharp
Feeling

Soft
Feeling


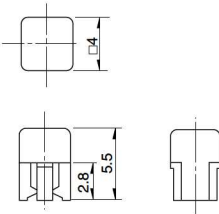

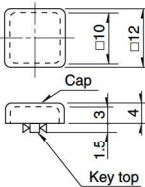
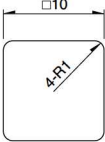

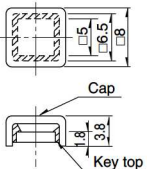


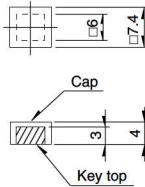
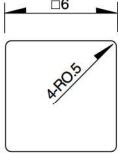
Snap-in
Type

Surface
Mount Type

Radial
Type

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		
Applicable to joint stem type			Clear	SK2AA00510	
			Keytop		Keytop + Cap
			Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090
					
					Thickness 0.1
SKHJ			Cap		
			Clear	SK2AA00520	
			Keytop		Keytop + Cap
			Red Blue Ivory Black Yellow	SK2AA00210 SK2AA00220 SK2AA00230 SK2AA00240 SK2AA00250	SK2AA00260 SK2AA00270 SK2AA00280 SK2AA00290 SK2AA00300
					
					Thickness 0.1
SKEG			Cap		
Applicable to joint stem type			Clear	SK2AA00540	
			Keytop		Keytop + Cap
			Red Blue Ivory Black Yellow	SK2AA00310 SK2AA00320 SK2AA00330 SK2AA00340 SK2AA00350	SK2AA00360 SK2AA00370 SK2AA00380 SK2AA00390 SK2AA00400
					
					Thickness 0.1

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

TACT Switch™

Custom-
ProductsSharp
FeelingSoft
FeelingSnap-in
TypeSurface
Mount TypeRadial
Type

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.

