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

SKHC Series

RoHS

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	Stem	Minimum order unit (pcs.)	Drawing No.
SKHCBJA010	0.74N		0.3	50mA		500,000 cycles	100mΩ max.	Blue		- 1,000 -	
SKHCBEA010	1.27N					1,000,000 cycles		Black	Joint stem Flat stem		2
SKHCBGA010	2.55N	Vertical				500,000		Dark gray			
SKHCBKA010	0.74N	ventical		12V DC		1VDC cycles		Blue			
SKHCBFA010	1.27N					1,000,000 cycles		Black			
SKHCBHA010	2.55N	1				500,000 cycles		Dark			

cycles

gray

Sharp Feeling Soft

Feeling Snap-in Туре

Packing Specifications

Surface	
Mount Type	
Radial	

Туре

Bulk

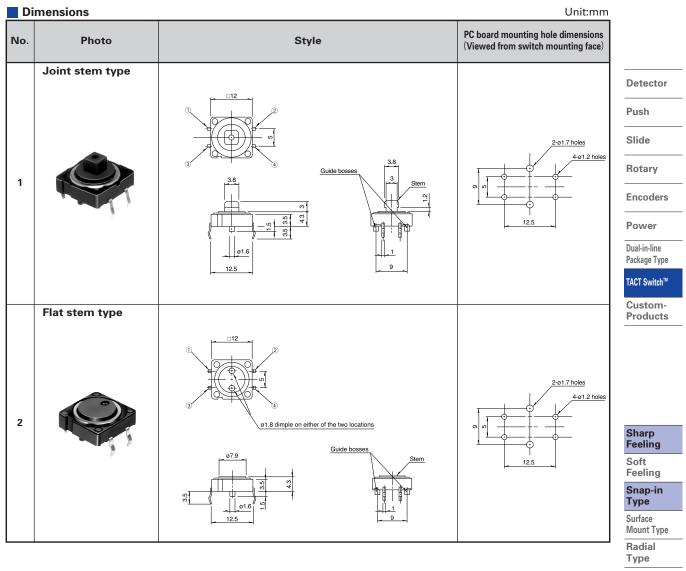
Number of pa	Export package measurements			
1 case /Japan	1 case /export packing	(mm)		
5,000	15,000	$309\!\times\!476\!\times\!347$		

Note

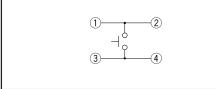
Please place purchase orders per minimum order unit N (integer).











Note

Please use 1.6mm thick PC boards.



List of Varieties

Sharp Feeling Type

			ype											
		Series		SKQB	SKQE	SKHC	SKSH	SKRW	SKRM	SKRB	SKRR	SKQG	SKSK	SKSD
or	Photo						٩							
_	Туре			Snap–in	1				Surface	e mount	I	I	1	
_	Features		Water-proof Horizontal type	-proof ontal Life —		Low-profile				Low-profile and long life		Double action		
	Ope dire	Vert	tical	_	•	•	•	•	•	•	•	•	•	•
	Operating direction	Horiz	ontal	•		I								
	- 0		w	11.5			3.3			□4.8	7.5	5.2	3.5	4.1
		nsions	D	11.9		12	2.9	□3.7	4.5		7		3.2	3.9
	(m	m)	н	11.3	4	.3	0	35	0.4	0.55	0.6	0.8	0	.6
			1N				0.			•	•••• ↑	•		
_	Operation force coverage 5N Travel (mm)			•	\$	ļ	\$	\$	\$	Ļ	Ļ	Ļ	respectiv	rant pages for e product iptions
			-	0.3 0.15 0.2 0.25 ref							See the relev respectiv	See the relevant pages for respective product descriptions		
_	Grou	nd tern	ninal						0.	.2	-		descri	
_		peratin nperatu range			-30°C to +85°C									
_	Automotive use			•	• - 0 -									
	Elec	Insula resist		100MΩ min. 100V DC										
	Electrical performance	Volt pro			250V AC for 1min. SKSH/RW/RB/RR/SK/SD : 100V AC for 1min.									
		Vibra			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									
	U Vibration bility Lifetime				Shall be in accordance with individual specifications.									
	Envi per	Co	ld	−30±2°C for 96h										
	Performance Damp heat		heat					80:	±2°C for §	96h				
			heat				(60±2℃,9	0 to 95%F	RH for 96	h			

 $\begin{array}{l} W: Width. The most outer dimension excluding terminal portion. \\ D: Depth. The most outer dimension excluding terminal portion. \\ H: Height. The minimum dimension if there are variances. \end{array}$

● TACT Switch [™] Soldering Conditions	
● TACT Switch [™] Cautions	
● Product Line of Knobs for TACT Switch [™] ······	

Notes

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, Omarks 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

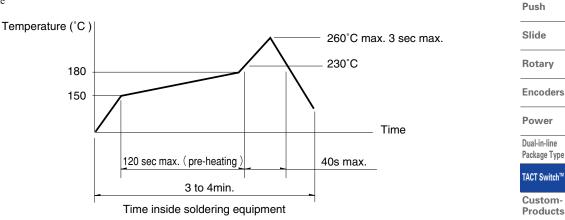
Soldering Conditions

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

- 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)

ltems	Condition				
Flux built-up	Mounting surface should not be exposed to fluk				
Preheating temperature	Ambient temperature of the solderec 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)

ltems	Condition				
Soldering temperature	350℃max.				
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.)



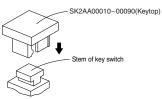
Product Line of Knobs

						Unit:mm	
Applicable model	Di	mensions		Variety	Label dimensions (Unit:mm)		
			Color	Mo	del		Detector
				Keytop			Push
SKHH			Red Blue Ivory	SK2AA00410 SK2AA00420 SK2AA00430			Slide
Applicable to joint stem type			Black Yellow	SK2AA00440 SK2AA00450			Encoders
				Сар			Power
			Clear	SK2AA00510		<u>□10</u>	Dual-in-line Package Type
SKHC SKQE	Ô	Cap Cap Cap Key top	Keytop		Keytop + Cap	Line and the second sec	TACT Switch™
Applicable to joint stem type			Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090	Thickness 0.1	Custom- Products
				Сар			
			Clear	SK2AA00540			
SKEG			Кеутор		Keytop+Cap		Sharp Feeling
		Key top	Red Blue Ivory	SK2AA00310 SK2AA00320 SK2AA00330	SK2AA00360 SK2AA00370 SK2AA00380		Soft Feeling
Applicable to joint stem type			Black Yellow	SK2AA00330 SK2AA00340 SK2AA00350	SK2AA00380 SK2AA00390 SK2AA00400	Thickness 0.1	Snap-in Type
							Surface

Notes

1. The knob will be delivered together with the switch but packed separately.

The label is not included.
For SK2AA00010 to SK2AA00090 types, please check the mounting direction.



Mount Type

Radial Туре