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

SKHC Series

Product Line

Product No.

SKHCBJA010

SKHCBEA010

SKHCBGA010

SKHCBKA010

SKHCBFA010

SKHCBHA010

RoHS compliant

Joint stem & flat stem with stable operation feeling.

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



Operating

force

0.74N

1.27N

2.55N

0.74N

1.27N

2.55N

Operating

direction

Vertical

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Rating

(min.)

10*µ* A

1V DC

Operating life

(5mA 5V DC)

500,000

cycles 1,000,000

cycles

500,000

cycles

1,000,000

cycles

500,000

cycles

Initial contact

resistance

100m

max.

Stem

color

Blue

Black

Dark

gray

Blue

Black

Dark

gray

Variety

Joint

stem

Flat

stem

Minimum order

unit(pcs.)

1,000

Drawing

No.

1

2

Rating

(max.)

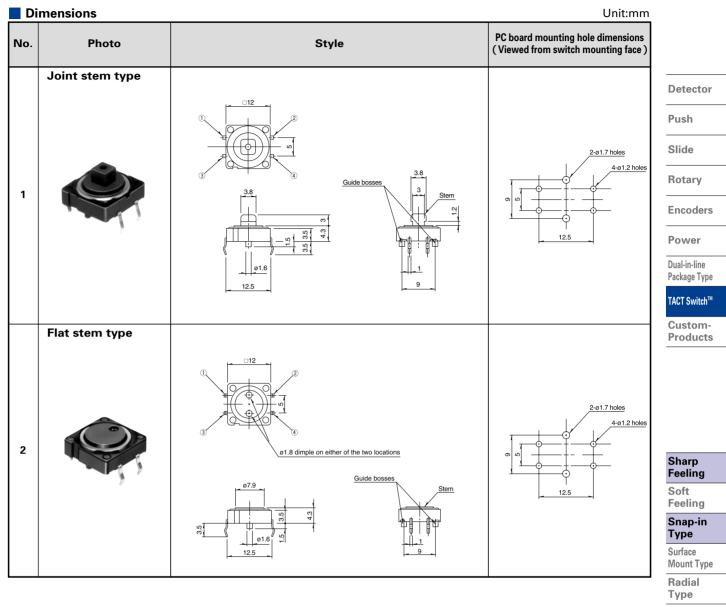
50mA

12V DC

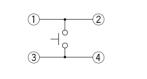
Travel

(mm)

0.3



Circuit Diagram



Note

Please use 1.6mm thick PC boards.

List of Varieties

Sharp Feeling Type

	Series		SKQU	SKQB	SKQE	SKHC	SKHK	SKRW	SKRM	SKQR	SKRB	SKRR	SKQG
	Photo							٩	۲	۲	۲	٢	Ó
Туре				Snap–in		,	Surface mount						
Features		4-direction Water-proof Long Long switch + push Horizontal Life Stem			Low-profile				Low-profile and long life	Low-prof			
Ope dire	Vertical Horizontal		SWIGH	type									
Operating direction													
		w		11.5								7.5	
	nsions 1m)	D	10 11.9		12		3.7 4.5	4.5	4.8		7	- 5.2	
		н	7.1	11.3	4.	.3	12	0.35	0.4	0.5	0.55	0.6	0.8
1N Operation force coverage 5N		See the relevant pages for respective product descriptions	•	\$	Ţ	•	¢	\$	¢	Ţ	\$	Ţ	
Grou	und terr	ninal										•	
Operating temperature range			-30 to +85										
Den Insula of e resist			100M min. 100V DC										
Electrical performance	Volt		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										
Durability	Lifet	ime	Shall be in accordance with individual specifications.										
Envi per	Co	ld	-30 ± 2 for 96h										
Environmenta performance	Dry	heat	80 ± 2 for 96h										
ental nce	Damp	heat	60 ± 2 , 90 to 95%RH for 96h										
Page			482	265	267	268	270	271	272	273	274	275	276
TAC	-	ch™ So					W : \ D : H :	 Width. The Depth. The Height. The	most oute most oute minimun	er dimensi er dimensi n dimensio	on exclud on exclud on if there	ing termina ing termina are variano	

Note

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

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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.

Push 3. Temperature profile

Slide

Detector

Rotary

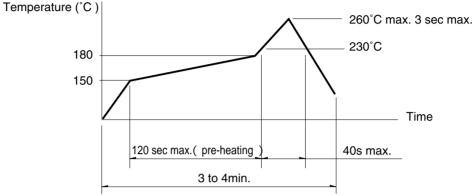
Encoders

Power

Dual-in-line Package Type

TACT Switch[™]

Custom-Products



Time inside soldering equipment

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.

Sharp Feeling
Soft Feeling
Snap-in Type
Surface Mount Type
Radial Type

nıgr

Conditions for Auto-dip Available for Snap-in Type and Radial Type

(Except SKHJ, SKHL, SKQJ, SKQK, SKEG series)

ltems	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.			
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.)

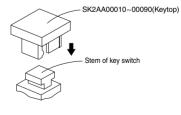
Product Line of Knobs

	Applicable model	Di	mensions		Label dimensions			
Detector				Color	Model		(Unit:mm)	
Push				Кеутор				
Slide Rotary	SKHH			Red Blue Ivory Black	SK2AA00410 SK2AA00420 SK2AA00430 SK2AA00440			
Encoders	Applicable to joint stem type			Yellow	SK2AA00450			
Power				Сар				
Dual-in-line Package Type		۲	Cap Cap Key top	Clear	SK2AA00510		<u> </u>	
TACT Switch [™]	SKHC SKQE			Keytop		Keytop + Cap	k Rt	
Custom- Products	Applicable to joint stem type			Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090	Thickness 0.1	
	stem type		Cap Key top		Сар			
	SKHJ			Clear	SK2AA00520		6.5	
Sharp Feeling				Keytop		Keytop + Cap		
Soft Feeling Snap-in Type				Red Blue Ivory Black Yellow	SK2AA00220 SK2AA SK2AA00230 SK2AA SK2AA00230 SK2AA SK2AA00240 SK2AA	SK2AA00260 SK2AA00270 SK2AA00280 SK2AA00290 SK2AA00300	Thickness 0.1	
Surface Mount Turns					Сар			
Mount Type Radial Type				Clear	SK2AA00540			
	SKEG Applicable to joint stem type			Keytop		Keytop + Cap	L ROS	
				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.



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