Joint stem & flat stem with stable operation feeling





■ Typical Specifications

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

Product Line

Product No.	Operating force	Operating direction	Operating life	Stem color	Stem	Minimum ord	er unit (pcs.)	Drawing
T TOUGET NO.	Operating force	Operating direction	(5mA 5V DC)	Sterri Color	Stelli	Japan	Export	No.
SKHCBJA010	0.74N		500,000 cycles	Blue			1,000	
SKHCBEA010	1.27N		1,000,000 cycles	Black	Joint stem	- 1,000		1
SKHCBGA010	2.55N	Top push	500.000 cycles	Dark gray				
SKHCBKA010	0.74N	τορ ραδιτ	Top pastr 300,000 cycles =	Blue				
SKHCBFA010	1.27N		1,000,000 cycles	Black				2
SKHCBHA010	2.55N		500,000 cycles	Dark gray				

Packing Specifications

Bulk

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

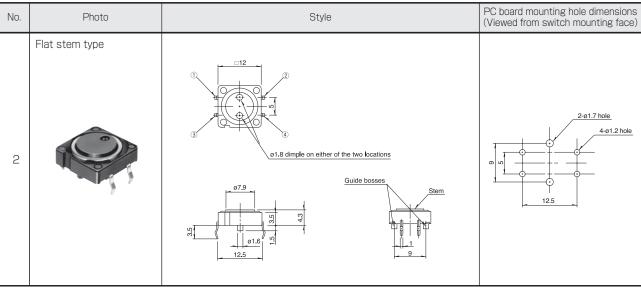
Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	Joint stem type	Guide bosses 3.8 Guide bosses 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.	2-01.7 hole 4-01.2 hole



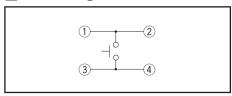
Dimensions



Note

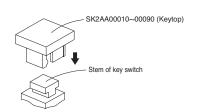
Please use 1.6mm thick PC boards.

Circuit Diagram



■ Product Line of Knobs							
Applicable model	Г	Dimensions	Color		iety	Label dimensions	
дрисаыс тюаст			COIOI	Mc	Laber difficultions		
				Cap			
		0 2	Clear	SK2AA00510		□10	
SKHC		Cap		Keytop	Keytop + Cap	, LET	
Applicable to joint stem type		Key top	Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090		

- 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.





	T				Sharp Feeling Typ	De		
	Туре				Snap-in			
Series		SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC
Photo								
	Features	_ _		_	_	_	Long-life	_
	Water-proof	_	_	0	_	•	_	_
	Dust-proof	_	_	•	•	•	•	_
	IP standard	_	_	_	_	_	_	_
Operati	Top push	•	•	•	•	•	•	•
directio		_	_	_	_	_	_	_
	W	6						
Dimension (mm)		3.5	-	16	□6.6	□10	L]12
(11111)	Н	4.3/5	See the relevant pages for respective product descriptions	4.3/5	5	5/13/23.2	See the rele respective pro	vant pages for duct descriptions
Operati force coverag	2N to 3N	1		Į.	1	1	Ţ	Ţ
	Travel (mm)	C).25	0.3	0.25			
G	round terminal	_	•	_	_	_	_	_
Operatir	ng temperature range		-40°C to +90°C		-20℃ to 70℃	-40℃ to	o +90℃	-40℃ to +85℃
А	utomotive use	•	•	_	_	•	_	_
	Life Cycle	*2	*3	*3	* 2	* 2	*2	*2
	Rating (max.) (Resistive load)				50mA 12V DC			
Electrical	Rating (min.) (Resistive load)				10μA 1V DC			
performance	Insulation resistance			1001	MΩ min. 100V DC	1min.		
	Voltage proof	250V AC 1min.						
Db.ilit	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						
Durability	Lifetime	Shall be in accordance with individual specifications.						
	Cold	-40°C 96h -30°C 96h -40°C 96h						
Environmental performance	Dry heat		90°C 96h		80°C 96h		90℃ 96h	
	Damp heat		60°C, 90 to	95%RH 96h		60°C, 90 to 95%RH 1,000h	60°C, 90 tc	95%RH 96h
	Page	193	195	199	200	202	204	206
			-		\/\ : \/\idth_T	he meet outer dim	oncion ovaludin	

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 |
 | 259 |
|------------------------|------------|------|------|------|------|------|------|------|-------|
| TACT Switch™ Cautions | |
 | . 260 |

Notes

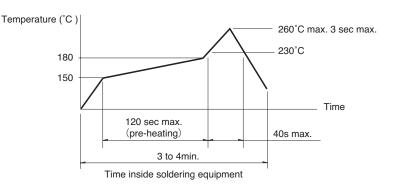
- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. Indicates applicability to all products in the series, while \bigcirc indicates applicability to some products in the series.

TACT Switch™ Soldering Conditions

Condition for Reflow

Available for Surface Mount Type.

- 1. Temperature measurement: Thermocouple ϕ 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.
- 2. 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.
- 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.

	3.
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, SKPD 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.

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	45s max.
Soldering temperature	255℃ max.
Duration of immersion	5s max.
Number of soldering	2times max.

Manual Soldering

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

SKHH, SKHW, SKRG, SKPD Series

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

SKTD, SKTG, SKQJ, SKQK, SKEG Series

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

