



Long-life type with unique dust-proof structure and highly reliable metal contacts.



Typical Specifications

Items	Specifications	Detector Push
Rating (max.)	50mA 12V DC	Slide
Rating (min.)	10µA 1V DC	Rotary
Initial contact resistance	100mΩ max.	Encoders
Travel (mm)	0.3	Power
	<u>.</u>	rower

Product Line

Product No.	Operating Operating Operating life Character		Stem	Minimum order unit (pcs.)		Drawing		
Product No.	force	direction	(5mA 5V DC)	Stem color S	Stell	Japan	Export	No.
SKQEAAA010	1.57N			Dark gray	Joint			1
SKQEACA010	2.55N	Tannuah	10,000,000 cycles	Red	stem	1 000	1 000	
SKQEABA010	1.57N	Toppush		Dark gray	Flat atom	1,000	1,000	2
SKQEADA010	2.55N			Red	Flat stem			2

Packing Specifications Bulk

Number of pa	Number of packages (pcs.)		
1 case / Japan	1 case / export packing	measurements (mm)	
4,000	12,000	309 imes 476 imes 347	

Dimensions

Di	mensions		Unit:mm
No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	Joint stem type	U U U U U U U U U U U U U U U U U U U	a 4-01.25 holes

Sharp Feeling Soft Feeling

Dual-in-line

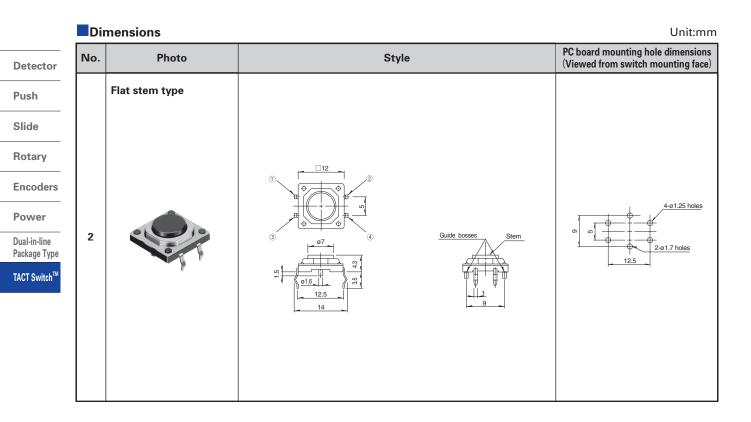
Package Type TACT Switch[™]

Snap-in Туре

Surface Mount Type Radial

Туре

12mm Square Long-life (Snap-in Type) SKQE





Mount Type

Radial Туре

Circuit Diagram

1	-2	
	(A)	
J .	9	

Note

Please use 1.6mm thick PC boards.

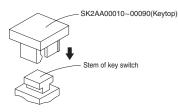
Product Line of Knobs

Product Line of Kn	obs					Unit:mm
Applicable model Dimensions				Variety		Label dimensions
	Dimensions		Color	Mo	del	(Unit:mm)
				Сар		
			Clear	SK2AA00510		□10
SKQE				Кеутор	Keytop+Cap	w ^{R1}
Applicable to joint stem type		Key top	Red Blue Ivory Black	SK2AA00010 SK2AA00020 SK2AA00030 SK2AA00040	SK2AA00060 SK2AA00070 SK2AA00080 SK2AA00090	

ALPS

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.



TACT Switch[™]

List of Varieties

						<u>-</u>					
	Туре						eling Type p–in	•			
	Series	SKHR	SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC	SKHL	SKHH
	Photo										8
	Features		,		,	7		Long Life		و باهم.	
	Vater-proof				0			_			
	Dust-proof				•	•	-	•			
Operatio		•	•	•	•	•	•	•	•		
	Side push				_		_			•	•
Dimensio	w D	□ 4.5	6 3.5] 6	□ 6.6	□ 10		12	7.3 7.22	7.5 7.85
(mm)	н	3.8		4.3		5	5		4.3		7.4
	~1N	1	1	1		1			1	1	1
Operation force	2N~2N 2N~3N		L		Ī	+	1	1		L	
coverag											
	4N~5N			+							
1	īravel (mm)		0.25		0.3	0.25		0.3		0.2	25
Gro	ound terminal		_	•	_	_	_	_	_	•	•
Operat	ing temperature range	- 30°C to + 85°C	- 20℃ to + 70℃				- 30℃ t	o + 85℃			
Aut	omotive use	—	•	•	_	_	_	_			
	Life Cycle		2	*3	*3	2	2	2		*3	*3
	ating (max.) esistive load)					50mA 1	I2V DC				
R (Re	ating (min.) esistive load)					10 <i>µ</i> A	1V DC				
Electrical	Insulation resistance	100M Ω min. 100V DC for 1min.									
performance	Voltage proof	250V AC for 1min.									
	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									
Durability -	Lifetime			Sha	all be in acco	ordance wit	th individua	l specificatio	ons.		
	Cold	$-30 \pm 2^{\circ}$ C for 96h									
Environmental performance	Dry heat					80 ± 2°0	C for 96h				
	Damp heat				60 ±	: 2℃ , 90 to	95%RH fo	r 96h			·
	Page		230	232	236	237	239	241	243	230	232

H : Height. The minimum dimension if there are variances.

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■ TACT Switch[™] Soldering Conditions · · · · · ·

Notes

- The automotive operating temperature range to be individually discussed upon request.
 indicates applicability to all products in the series, while O indicates applicability to some products in the series.



TACT Switch[™] Soldering Conditions

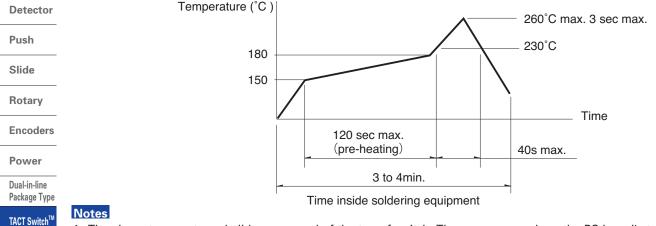
Condition for Reflow

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



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

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 $^\circ C$ max.			
Preheating time	60s max.			
Soldering temperature	260°C max.			
Duration of immersion	5s max.			
Number of soldering	2times max.			

SKHH、SKPD Series

ltems	Condition		
Flux built-up	ilt-up Mounting surface should not be exposed to flu		
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 fluk
Preheating temperature Ambient temperature of the soldered surface of PC board. 100°C	
Preheating time	45s max.
Soldering temperature	255°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 SwitchTM.
- 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)

ltems	Condition			
Soldering temperature	350°C 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.		

SKQJ、SKQK、SKEG Series

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



Sharp Feeling Soft

Feeling Snap-in Type Surface Mount Type

Radial Type