TACT Switch™ 4.5mm Square Compact (Snap-in Type)



Compact snap-in type improves high density mounting.

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	Minimum order unit (pcs.)	
SKHRAAA010	0.98N					50,000cycles		Black		
SKHRABA010	1.57N	Vertical	0.25	50mA 12V DC	10 <i>μ</i> Α 1V DC	30,000cycles	100mΩ max.		Dark gray	1,000
SKHRAHA010	2.55N					50,000cycles		Red		

Packing Specifications

Bulk

Dan				
Number of pa	Export package measurements			
1 case /Japan	1 case /export packing	(mm)		
20,000	60,000	309×476×347		

Sharp Feeling

Soft Feeling

Snap-in Type

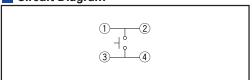
Surface Mount Type Radial

Type

Unit:mm Dimensions

Style	PC board mounting hole dimensions (Viewed from switch mounting face)
3 02.5 4 Stem 3 0.7 0.7	4-01 holes 5

Circuit Diagram



Notes

- Please use 1.6mm thick PC boards.
 Please place purchase orders per minimum order unit N (integer).

Refer to P.334 for soldering conditions.

List of Varieties

Sharp Feeling Type

- 0111	шр г сс	g .	,,,,										
Series		SKHR	SKHL	SKHH	SKHW	SKRD	SKQJ	SKHL	SKHH	SKQJ	SKQB	SKQU	
Photo		3										*	
	Туре							Snap-in					
F	eature	s	_		_	Dust-proof type	Horizontal type	_	Horizontal type			Water– proof	4-direction switch+push switch
Oper	Vertical		•	•	•	•	_	•	_			• •	
Operating direction	Horizontal		_			_	•	_	•	•	•	_	_
		w		6	- □6		6.2	- □6.6	7.3	7	7.5		
Dimer (m	nsions m)	D	□4.5	3.5			7.15		7.22	7.85		_ □10	
		Н	3.8		4.3		7.4	5	4.3	7.4	7.3	5	7.1
Operation force coverage		1N 5N	1	1		1	1	1	1	1	1	‡	See the relevant pages for respective product
Travel (mm)			0.25		0.3			0.25			0.3	descriptions	
Grou	ınd terr	ninal									_		
	Operating		-20°C to +70°C SKHL(Vertical Type)/QJ										
temperature range		ure	-30°C to +85°C										
Automotive use		use	_ • <u> </u>										
Insulation resistance			100MΩ min. 100V DC										
Electrical performance	Volt		250V 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.										
Environmental performance	Co	old	-30±2°C for 96h										
	Dry	heat	80±2°C for 96h										
ental	Damp	heat	60±2℃, 90 to 95%RH for 96h										
	Page		281	282	284	288	289	290	282	284	290	292	485

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™ Cautions ·······335

Notes

- 1. The automotive operating temperature range to be individually discussed upon request.
- •marks 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.

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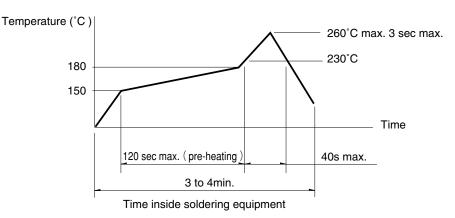
Products

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

- 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, SKHL, 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 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)

Condition
350°C max.
3s max.
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.)