SKHW

6mm Square Dust-proof (Snap-in Type)



Suitable for various electronic devices with unique dust-proof structure and sharp operation feeling.

Typical Specifications

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

Product Line

	-				i					
Product No.	Operating	Operating	Operating life	Stem color	Stem height	Minimum order unit (pcs.)				
rioudet ivo.	force	direction	(5mA 5V DC)	Stem color	Stemheight	Japan	Export			
SKHWALA010	1.57N	– Toppush –	1,000,000cycles	Dark gray	h=4.3mm					
SKHWARA010	2.55N		500,000cycles	Red	11=4.311111	1 000	1 000			
SKHWAPA010	1.57N		1,000,000cycles	Dark gray	h Emm	1,000	1,000			
SKHWAQA010	KHWAQA010 2.55N		500,000cycles	Red	h=5mm					

Export package

measurements (mm)

309 imes 476 imes 347

Packing Specifications Bulk

1 case / Japan

10,000

Number of packages (pcs.)

1 case / export packing

30,000

Sharp Feeling

Soft Feeling
Snap-in Type
Surface Mount Type

Detector

Push

Slide

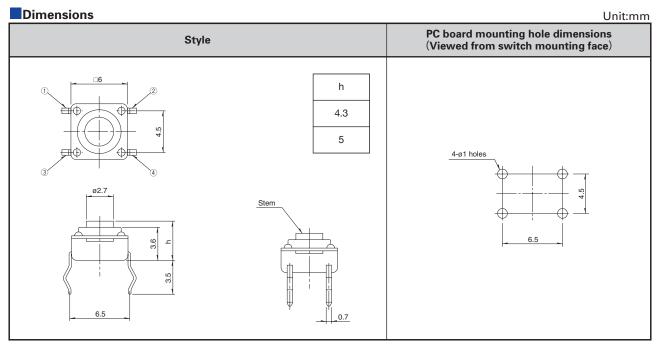
Rotary

Encoders

Package Type TACT Switch[™]

Power Dual-in-line

Surface Mount Type Radial Type



Circuit Diagram



Note

Please use 1.6mm thick PC boards.



TACT Switch[™]

List of Varieties

			Sharp Feeling Type													
	1	Гуре					Sna									
	S	eries	SKHR	SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC	SKHL	SKHH				
	Р	hoto														
Features Water-proof				_	_	_		_	Long Life			—				
			—	_	_	0	—	•	_		_	_				
Dust-proof		_	_	_	•	•	•	•			_					
Operating Top push		•	٠	•	•	•	٠	•	•		_					
dire	ction	Side push	_	_		_	_				•	٠				
	nsions Im)	W D	4.5	6 3.5] 6	6.6	□ 10		12	7.3 7.22	7.5 7.85				
(11	1111)	н	3.8		4.3		5	5		4.3		7.4				
		~1N 1N~2N	1			A	1			1	1	1				
fo	ration rce	2N~3N	Ļ	L.		Ļ		Ļ	Ļ	Ļ	Ļ	Ļ				
cove	erage	3N~4N 4N~5N			+											
	Trav	el (mm)	0.25			0.3	0.25		0.3		0.2	25				
	Groun	d terminal		_	•	_	_		_		•	•				
Ор		i temperature ange	- 30℃ to + 85℃	- 2	40°C to + 9	℃	- 30℃ to + 85℃	- 40°C to	o + 90℃	- 40℃ to + 85℃	- 40℃ to	0 + 90℃				
	Autom	otive use		•	•	_			_			_				
	Life	e Cycle	2	* 2	*3	*3	2	* 2			**3	*3				
		g (max.) tive load)	50mA 12V DC													
	Ratir (Resis	ng (min.) stive load)					10 <i>µ</i> A	1V DC								
Electric	al	Insulation resistance	100M Ω min. 100V DC for 1min.													
performa	nce V	/oltage proof					250V AC	for 1min.								
Durahi	lity	Vibration			10 to 55 to in th	10Hz/min., t e 3 directio	he amplituc n of X, Y an	le is 1.5mm d Z for 2ho	n for all the f ours respect	requencies ively	,					
Durability Lifetime					Sha	all be in acco	ordance wit	h individua	l specificatio	ons.						
		Cold		-40 ± 2	°C for 96h		$-30 \pm 2^{\circ}C$ for 96h $-430 \pm 2^{\circ}C$ for 96h									
Environme performa		Dry heat		90 ± 2°0	C for 96h		$-80 \pm 2^{\circ}C$ for 96h		90	\pm 2°C for 9	16h					
		Damp heat	60 ±	: 2℃ , 90 to	95%RH fo	r 96h	60 ± 2°C , 90 to 95%RH for 1000h		$60 \pm 2^{\circ}C$,	90 to 95%F	RH for 96h					
	F	Page	229 230 232 236 237 239 241 243								230	232				

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	Con	ditio	ons	•	•	•	•	•	•	•	• •	•	•	•	•	•	•	•	•••	•	•	•	•	•	• •	•	•	•	•	•••	1	288
TACT	Switch™	Cautions	• •	• •	• •	•	•	•	•	•	•	•	• •	•	•	•	•	•	•	•	•••	•	•	•	•	•	• •	•	•	•	•	• •	1	289

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

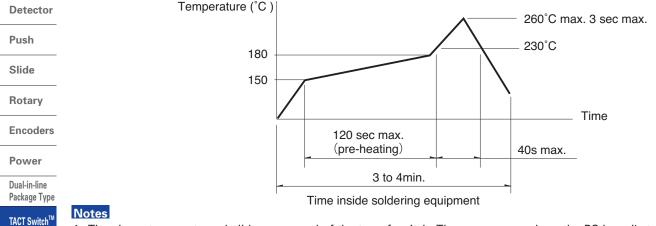
Condition for Reflow

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	Mounting surface should not be exposed to fluk
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 max.
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)

Items	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