

6.2mm Square with Middle-travel (Surface Mount Type)





Rubber stem helps to achieve travel of 0.3 to 0.55mm & over travel.

Typical Specifications

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

Product Line

Detector

Push

Slide

Rotary

Encoders

Power Dual-in-line Package Type TACT Switch™

Sharp Feeling Soft

Feeling Snap-in

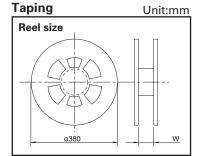
Type

Surface **Mount Type** Radial

Type

Product No.	Operating	Operating	Travel	Operating life	Stem color	Minimum order unit (pcs.)		
Product No.	force	direction	(mm)	(5mA 5V DC)	Stem color	Japan	Export	
SKRAAWE010	0.6N		0.35	4,000,000cycles	Blue			
SKRAAKE010	2.45N		0.3		White	3,000	3,000	
SKRAALE010	3.92N	Toppush	0.35	100,000cycles				
SKRAAME010	1.96N		0.5	100,000cycles	Blue	1,400	1,400	
SKRAAQE010	3.43N		0.55				1,400	

Packing Specifications

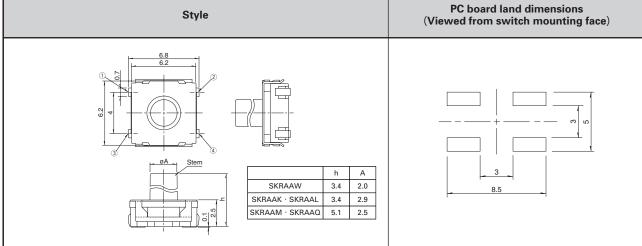


	Number	of package	s (pcs.)	Real	Tape	Export package	
Series	1 reel	1 case / Japan			width (mm)	measurements (mm)	
SKRAAK SKRAAL SKRAAW	3,000	30,000	30,000	13.5	12	401 × 401 × 214	
SKRAAM SKRAAQ	1,400	11,200	11,200	17.5	16	401 \(\times 401 \(\times 214 \)	

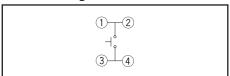
Note

For reels of 330mm diameter, please inquire.

Dimensions Unit:mm PC board land dimensions Style (Viewed from switch mounting face)



Circuit Diagram



■ List of Varieties

	Time	Sharp Feeling Type										
	Туре					Su	rface Mo	unt				
	Series	SKST	SKRA	SKHM	SKHU	SKTD	SKSN	SKSL	SKSC	SKRT	SKRV	SKRH
	Photo	NEW	9	100		NEW		0,3				
	Features		ddle vel	_	_	Low- profile	Mid- mount	Half- mount	Low- profile	_		n switch+ switch
w	ater-proof	_	0	_	0	•	_	_	_	_	_	_
D	oust-proof	0	0	_	0	•	0	0	0	_	_	_
Operatin	Toppush	•	•	•	•	_	_	_	_	_	•	•
direction	n Sidepush	_	_	_	_	•	•	•	•	•	_	_
	W	8.5	□ 6.2	6.2	6.2	2.9	6.2	4.5	3.5	4.5	6.45	7.35
Dimension (mm)	ns D	8.5	U.2	6.5	6.3	3.9	2.55	2.6	3.5	55	6.4	7.5
	Н	3.95	3.4	3.1	2.5	1.55	3.5	2.2	1.25	3.3	4	5
Operation force	2N~3N			Ţ	Ţ	\$	\$	‡	1		÷	*
coverag	e 3N~4N 4N~5N	‡	—									
Ti	ravel (mm)	0.9	*	0.	25	0.15	0.2	0.15	0.	2	;	*
Gro	und terminal	_	_	•	•	•	•	•	•	•	_	_
Operati	ing temperature range	-30°C to +85°C -40°C to +90°C				o + 90°C	- 30°C to) + 85°C	-20°C to +70°C	- 40°C to + 85°C		
Auto	omotive use	•	0	_	0	_	_	_	_	_	_	_
L	ife Cycle	* 2	*3	*3	*3	* 2	* 2	* 2	* 2	* 2	★ 2	* 2
	iting (max.) sistive load)	50mA 16V DC 50mA 12V DC										
Ra (Re	ating (min.) sistive load)					1	0 μ A 1V D	С				
Electrical	Insulation resistance		100M Ω min. 100V DC for 1min.									
performance	Voltage proof	250V AC for 1min. 100V AC for 1min. 250V AC for 1min. 100V AC for 1min. 100V AC for 1min.						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	Shall be in accordance with individual specifications.										
	Cold	- 30±2℃ for 96h				- 40°C for 96h - 30±		±2°C for	-40±2 for 96h			
Environmental performance	Dry heat	80±2°C for 96h			90°C for 96h 80±2°C for 96h			96h	90 ± 2°C for 96h			
	Damp heat	60±2℃, 90 to 95%RH for 96h					1					
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D: Depth. The most outer dimension excluding terminal portion.

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

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Notes

- The automotive operating temperature range to be individually discussed upon request.
 indicates applicability to all products in the series, while \(\circ\) indicates applicability to some products in the series.
- 3. * See the relevant pages for respective product descriptions

Rotary Encoders Power Dual-in-line Package Type

TACT Switch™

Detector

Push

Slide

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

Type

TACT Switch™ Soldering Conditions

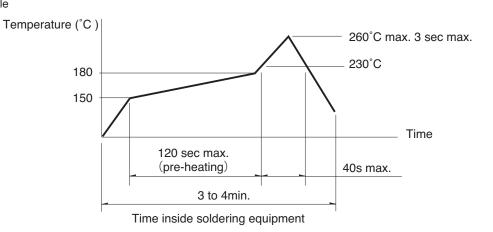
Condition for Reflow

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



Detector

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Power

Dual-in-line Package Type

TACT Switch™

Sharp Feeling Soft

Feeling Snap-in Type Surface Mount Type

Radial Type

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

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.			

SKHH、SKPD 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. 110°C max.
Preheating time	60s max.
Soldering temperature	260°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

SKOJ. SKOK. SKEG Series

SNQJ, SNQN, SNEG 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℃ max.				
Duration of immersion	5s max.				
Number of soldering	2times max.				

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.

Notes

- 1. Consult with us for availability of TACT Switch[™] washing.
- 2. Prevent flux penetration from the top side of the TACT Switch $^{\text{TM}}$.
- 3. Switch terminals and a PC board should not be coated with flux prior to soldering.
- 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.)