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

SKRA Series



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



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.)
SKRAAUE010	0.6N		0.35	3	5,000,000cycles	Green			
SKRAAKE010	2.45N		0.3				White	3,000	
SKRAALE010	3.92N	Vertical	0.35	50mA 12V DC	/	100,000cycles	100m Ω max.	vviiite	
SKRAAME010	1.96N		0.5					Blue	1,400
SKRAAQE010	3.43N		0.55					Dide	1,400

Detector

Push

Slide

Rotary

Encoders

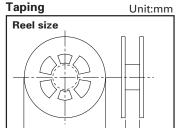
Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**

Packing Specifications



	Number	of packag	es(pcs.)	B 1	Tape	Export package measurements (mm)	
Series	1 reel	1 case /Japan	1 case /export packing	Real width W(mm)	width (mm)		
SKRAAK SKRAAL SKRAAU	3,000	30,000	30,000	13.5	12	401×401×214	
SKRAAM SKRAAQ	1,400	11,200	11,200	17.5	16	401 ^ 401 ^ 214	

Sharp Feeling

Feeling

Snap-in Type

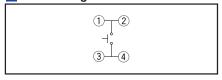
Surface **Mount Type**

Radial Type

Dimensions	Unit:mm
Style	PC board land dimensions (Viewed from switch mounting face)
6.8 6.2 0 3 Skraau 3.4 2.0 Skraak · Skraal 3.4 2.9 Skraam · Skraao 5.1 2.5	3 8.5



Circuit Diagram



- 1. Please place purchase orders per minimum order unit N (integer).
- 2. For ϕ 330mm diameter reel requirements, please contact us.

Refer to P.334 for soldering conditions.

List of Varieties

Sharp Feeling Type

- 0110	прісс	9 .	71										
	Series		SKRN	SKSE	SPEE	SKSF	SKSG	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM
Photo			:0:	Sale.	۹					*	9		
	Туре						Su	rface mo	unt				
F	eature	s	Double action		tal type action	Compact size Low-profile	High operation force Compact size	Compact size Low-profile	size High operation force file Compact size		act size	Middle travel	_
Oper dire	Vert	tical	•	_	_	•	•	•	•	•	•	•	•
Operating direction	Horiz	ontal	_	•	•							-	
		w		5.9	4	2.8	3	3.9	4.2	6	6.1		6.2
Dimer (m	nsions m)	D	□6	2.87	5	2.4	2.7	2.9	3.2	3.5	3.7	- □6.2	6.5
		Н	0.9	3	1.22	0.65	1.4	1.5	2.5	4.3	2.5	3.4	3.1
1N Operation force coverage		1N 5N		relevant pa product de		•	\uparrow	‡	1	1	1	1	1
Travel (mm)				relevant pa		0.1	0.12	0.13	0.2	See the relevant pages for respective product descriptions		0.25	
Grou	nd terr	ninal	•	_		_	•		_		•	_	•
Operating temperature range			-30°C to	+85°C	-10°C to +60°C	−30°C to +85°C							
Automotive use		use	_				0	_	•	•	•	0	_
Elec	Insula resist												
Electrical performance	Volt		250V AC for 1min.						250V AC for 1min.				
	Vibra	ation	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	time	Shall be in accordance with individual specifications.										
Envi per	Co	old	-30±2℃	for 96h	-40±2°C for 96h				-30±2°C	for 96h			
Environmental performance	Dry	heat	80±2℃	for 96h	6h 85±2°C for 96h		80±2°C for 96h						
ental nce	Damp	heat	60±2°C 95%RH	, 90 to for 96h	40±2°C, 90 to 95%RH for 96h			60±2	2°C, 90 to	95%RH fo	or 96h		
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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.

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- 1. The automotive operating temperature range to be individually discussed upon request.
- Omarks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40°C to +85°C, ●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.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

TACT Switch™

Custom-**Products**

Sharp Feeling Soft **Feeling**

Snap-in Type Surface

Mount Type Radial

Type

IACI	SWILCH	Cautions									
Produ	ct Line of	Knobs for T	ACT S	Switch™	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••

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Custom-

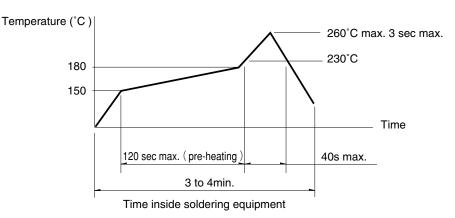
Products

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)

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