TACT Switch™ 6.2mm Diameter Round Terminal (Radial Type)

SKRG Series

RoHS

Round terminal vertical type with excellent PC board mounting performance.

Detector

Push Slide

Rotary Encoders



Product Line

Power	Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Stem color	Stem height	Minimum order unit (pcs.)
Dual-in-line Package Type	SKRGAAD010	1.27N	-				500,000cycles	500mΩ max.	Black	h=4.3mm	2,000
<u> </u>	SKRGABD010	1.57N							White		
TACT Switch™	SKRGACD010	2.55N					200,000cycles		Gray		
Custom- Products	SKRGADD010	1.27N					500,000cycles		Black	h=5mm	
	SKRGAED010	1.57N							White		
	SKRGAFD010	2.55N	Vertical	0.25	50mA	10 <i>µ</i> A	200,000cycles		Gray		
	SKRGALD010	1.27N		0.25	12V DC	1V DC	500,000cycles		Black	h=7mm	
	SKRGAMD010	1.57N							White		
	SKRGAND010	2.55N					200,000cycles		Gray		
Sharp	SKRGAQD010	1.27N					500,000cycles		Black		
	SKRGARD010	1.57N							White		
Feeling	SKRGASD010	2.55N					200,000cycles		Gray		

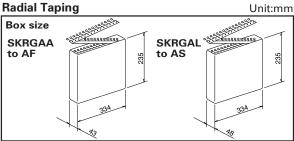
Packing Specifications

Snap-in Туре

Surface Mount Type Radial

Туре

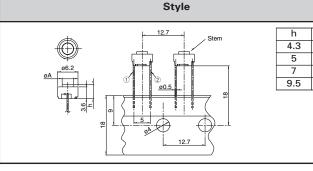
Sharp Feelin Soft Feeling

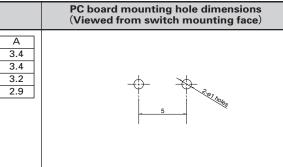


Numbe	Export package						
1 box	oox 1 case 1 case /Japan /export packing		measurements (mm)				
2,000	20.000	20.000	SKRGAA to AF 353 × 506 × 244				
2,000	20,000	20,000	SKRGAL to AS 353 × 506 × 269				

Dimensions

Automotive Use





Circuit Diagram

Notes

1. Please use 1.6mm thick PC boards.

2. Please place purchase orders per minimum order unit N (integer).

Unit:mm





List of Varieties

Sharp Feeling Type

			140											
		Series		SKHU	SKSC	SKRE	SKRT	SKRV	SKRH	SKQU	SKRG	SKOK	SKQN	SKRO
ector	Photo		C		-				۲		***	888	888	
	Туре			Surface mount Radial										
	Features		Dust-proof type is available		profile ntal type	Horizontal type	4-direction switch+push switch		Round terminal type	_	Round terminal Horizontal type	Water proof		
	direction Berating Horizontal		tical	•		_	1	•	•	•	•	•	_	•
5			_	•	•	•						•	_	
_			w	6.2	3.5	3.9	4.5	6.45	7.35	- 10	¢6.2	□6.6	7.3	φ9
9		nsions m)	D	6.3		3.55		6.4	7.5				6.85	
			н	2.5	1.25	1.5	3.3	4	5	7.1	4.3	5	7.1	13
- S	fo	1N Image: Constraint of the second		Ţ	\$	\$	•	for res	he relevant pages espective product descriptions		1	\$	\$	¢
	Tra			relevant p ective pro escriptior	bages for oduct	0.25								
	Ground terminal Operating temperature range Automotive use		ninal			_	•							
			-20°C to +70°C SKRV/QK											
<u>ו</u>			-30℃ to +85℃											
_			use	○ <u> </u>							_			
e	Ele perfo	Insul resist		100MΩ min. 100V DC										
	ctrical	rmance Voltage proof		250V AC for 1min. SKSC/RE/RV/RH : 100V 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	Lifetime		Shall be in accordance with the individual specification.										
				−30±2℃ for 96h										
	Environmental performance	Dry	heat				80±2°C for 96h							
	nental ance	Damp	heat	60±2℃, 90 to 95%RH for 96h										
		Page		316	318	319	320	483	484	485	321	323	322	324
							W : Wi	idth. The to	ı otal dimen	ı sion exclu	ding termi	nal portio	n.	

D = Depth. The total dimension excluding terminal portion.
H = Height. The minimum dimension if there is difference in product variety.

● TACT Switch[™] Cautions 335

Notes

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

2. Omarks in "Available for automotive use" indicate that some of the series products can work at the operating temperature range from -40℃ to +85℃, ●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

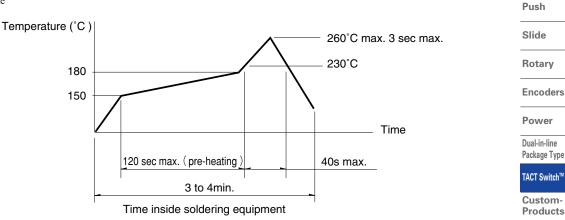
Soldering Conditions

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

- 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)

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°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)

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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.)

