## **TACT** Switch<sup>™</sup> 4.2 × 3.2mm Compact High Operating Force (Surface Mount Type)

**SKRP** Series

RoHS complia

## High operation force satisfies the needs in automotive applications. Wide stem & good mountability.

Detector

Push



Encoders

Sharp Feeling Soft

Feeling

Snap-in Туре

Surface

Radial Туре

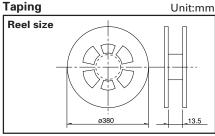
Mount Type



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	Minimum order unit (pcs.)
Dual-in-line Package Type	SKRPABE010	1.57N					100,000cycles		Natural	
TACT Switch™	SKRPACE010	2.55N	Vertical	0.2	50mA 16V DC	10 <i>µ</i> A 1V DC	50,000cycles	500m Ω max.	Naturai	4,000
Custom- Products	SKRPADE010	4N					100,000cycles		Black	

## Packing Specifications

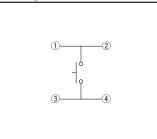


Numb	er of package	Tape	Export package			
1 reel	1 case /Japan	1 case /export packing	width (mm)	measurements (mm)		
4,000	40,000	40,000	12	401×401×214		

### Dimensions

Unit:mm PC board land dimensions Style (Viewed from switch mounting face) 4.6 4.2 Stem

Circuit Diagram



## Notes

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



Automotive

Use



# List of Varieties

### Sharp Feeling Type

			77											
	Series		SKRN	SKSE	SPEE	SKSF	SKSG	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM	
Photo		Ô		Ser.	۲									
	Туре				1	1	Su	Irface mo	unt	1	1	1	1	
F	eature	s	Double action			Compact size Low-profile			e Compact size High operation force Low-profile Compact size		Compact size		_	
dir dir	Ver	tical	•		_	•	•	•	•	•	•	•	•	
<b>Operating</b> direction	Horiz	ontal	_	•	•							-	1	
- @		w		5.9	4	2.8	3	3.9	4.2	6	6.1		6.2	
	nsions m)	D	6	2.87	5	2.4	2.7	2.9	3.2	3.5	3.7	- 06.2	6.5	
	,	н	0.9	3	1.22	0.65	1.4	1.5	2.5	4.3	2.5	3.4	3.1	
fo	ation rce erage	1N		relevant pa product de		•	Ĵ	\$	<b>↓</b>	Ì	<b>I</b>	Î	Î	
		5N										See the relevant		
Tra	Travel (mm) See the relevant pages for respective product descriptions		0.1							0.25				
Grou	ind terr	ninal	•				•		—		•	_	•	
Operating temperature range			-30°C to +85°C +60°C						-30°C to	-30℃ to +85℃				
Auto	motive	use	_			<u> </u>	0	_	•	•	•	0	_	
Ele	Insul resist	ation tance		Ω min. / DC	10MΩ min. 100V DC			1	00MΩ mi	in. 100V E		1	1	
Electrical	Volt		250V AC for 1min.	-		for 1min.				250V AC	for 1min.			
		ation		1(				l plitude is , Y and Z f				es,		
Durability	Lifet	time	Shall be in accordance with individual specifications.											
Envi	Co	old	-30±2℃	for 96h	-40±2℃ for 96h				-30±2℃ for 96h		r 96h			
Environmental performance	Dry	heat	80±2℃	for 96h	85±2℃ for 96h	80±2℃ for 96h								
ental nce	Damp heat $60 \pm 2^{\circ}C$ , 90 to 95%RH for 96h $40 \pm 2^{\circ}C$ , 90 to 95%RH for 96h $60 \pm 2^{\circ}C$ , 90 to 95%RH for 96h													
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 $\begin{array}{l} W: Width. \ The \ most \ outer \ dimension \ excluding \ terminal \ portion. \\ D: \ Depth. \ The \ most \ outer \ dimension \ excluding \ terminal \ portion. \\ H: \ Height. \ The \ minimum \ dimension \ if \ there \ are \ variances. \end{array}$ 

● TACT Switch <sup>™</sup> Soldering Conditions	
● TACT Switch <sup>™</sup> Cautions	
● Product Line of Knobs for TACT Switch <sup>™</sup> ······	.336

### Notes

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

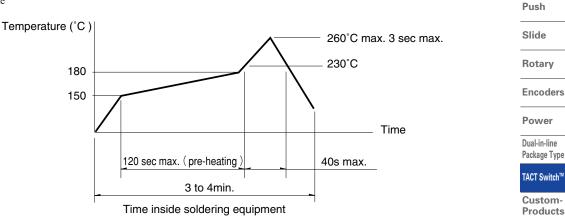
# Soldering Conditions

### Condition for Reflow

#### Available for Surface Mount Type.

1. Heating method: Double heating method with infrared heater.

- 2. Temperature measurement: Thermocouple 0.1 to  $0.2\phi$  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)

ltems	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<sup>™</sup> washing.
- 2. Prevent flux penetration from the top side of the TACT Switch<sup>™</sup>.
- 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.)

