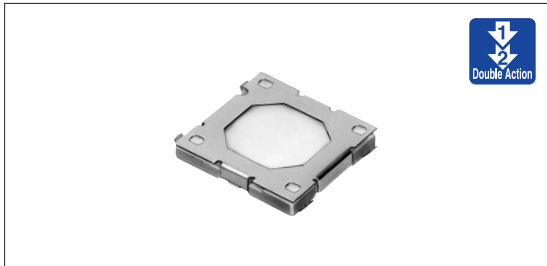


# TACT Switch™ 6mm Square Low-profile Double Action (Surface Mount Type)

SKRN Series



0.9mm low-profile switch with double action.



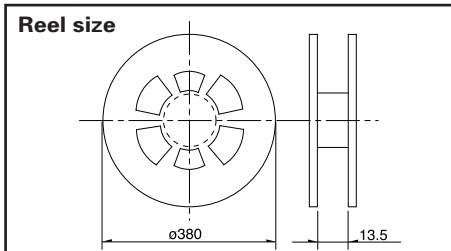
## Product Line

Product No.	Operating force	Operating direction	Travel (mm)	Rating (max.)	Rating (min.)	Operating life (5mA 5V DC)	Initial contact resistance	Guide bosses	Minimum order unit (pcs.)
SKRNP AE010	1st 0.78N 2nd 2.45N	Vertical	1st 0.25 All 0.4	50mA 12V DC	10μA 1V DC	30,000cycles	100mΩ max.	Without	5,000
SKRNP BE010	With								
SKRNP CE010	Without								
SKRNP DE010	1st 0.78N 2nd 1.57N					100,000cycles		Without	
SKRNP EE010	With								
SKRNP ME010	1st 0.59N 2nd 1.57N							With	

## Packing Specifications

### Taping

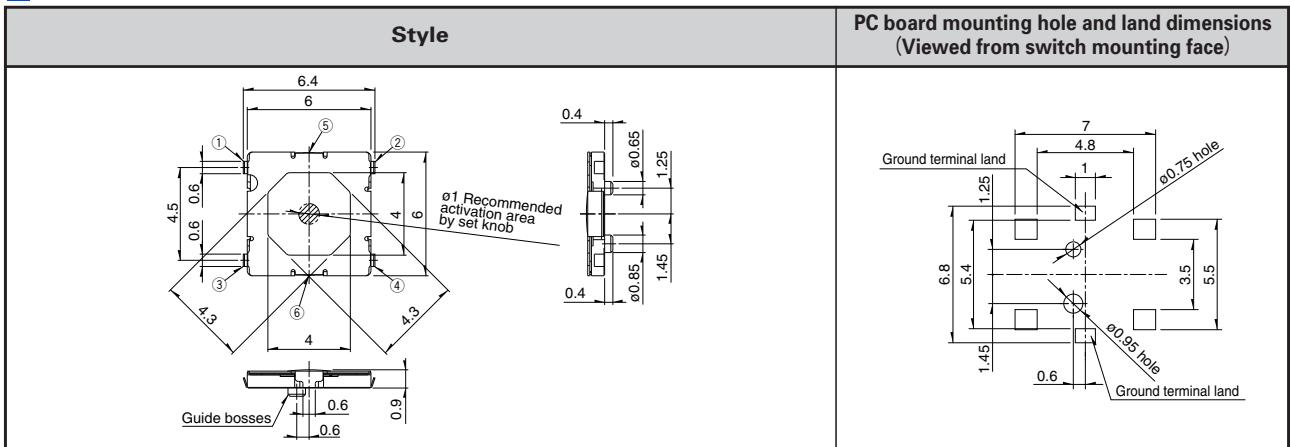
Unit:mm



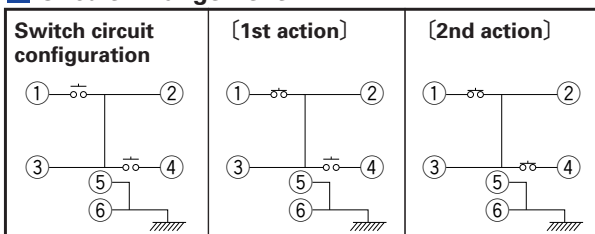
Number of packages (pcs.)			Tape width (mm)	Export package measurements (mm)
1 reel	1 case /Japan	1 case /export packing		
5,000	50,000	50,000	12	401×401×214

## Dimensions

Unit:mm



## Circuit Arrangement



## Notes

1. Please place purchase orders per minimum order unit N (integer).
2. For φ330mm diameter reel requirements, please contact us.

Refer to P.334 for soldering conditions.

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

# List of Varieties

## Sharp Feeling Type

Series	SKRN	SKSE	SPEE	SKSF	SKSG	SKRK	SKRP	SKQM	SKQY	SKRA	SKHM	
Photo												
Type	Surface mount											
Features	Double action	Horizontal type Double action		Compact size Low-profile	High operation force Compact size	Compact size Low-profile	High operation force Compact size	Compact size		Middle travel	—	
Operating direction	Vertical	●	—		●	●	●	●	●	●	●	
	Horizontal	—	●	●	—							
Dimensions (mm)	W	□6	5.9	4	2.8	3	3.9	4.2	6	6.1	□6.2	6.2
	D		2.87	5	2.4	2.7	2.9	3.2	3.5	3.7		6.5
	H	0.9	3	1.22	0.65	1.4	1.5	2.5	4.3	2.5	3.4	3.1
Operation force coverage	1N	See the relevant pages for respective product descriptions			●	↕	↕	↕	↕	↕	↕	
	5N					↕	↕	↕	↕	↕	↕	
Travel (mm)	See the relevant pages for respective product descriptions				0.1	0.12	0.13	0.2	0.25		See the relevant pages for respective product descriptions	0.25
Ground terminal	●	—			●	—			●	—	●	
Operating temperature range	-30°C to +85°C		-10°C to +60°C		-30°C to +85°C							
Automotive use	—				○	—	●	●	●	○	—	
Electrical performance	Insulation resistance	100MΩ min. 100V DC		10MΩ min. 100V DC	100MΩ min. 100V DC							
	Voltage proof	250V AC for 1min.	100V AC for 1min.				250V AC for 1min.					
Durability	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										
	Lifetime	Shall be in accordance with individual specifications.										
Environmental performance	Cold	-30±2°C for 96h		-40±2°C for 96h	-30±2°C for 96h							
	Dry heat	80±2°C for 96h		85±2°C for 96h	80±2°C for 96h							
	Damp heat	60±2°C, 90 to 95%RH for 96h		40±2°C, 90 to 95%RH for 96h	60±2°C, 90 to 95%RH for 96h							
Page	306	307	102	308	309	310	311	312	313	314	315	

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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- TACT Switch™ Cautions .....335
- Product Line of Knobs for TACT Switch™ .....336

### Notes

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

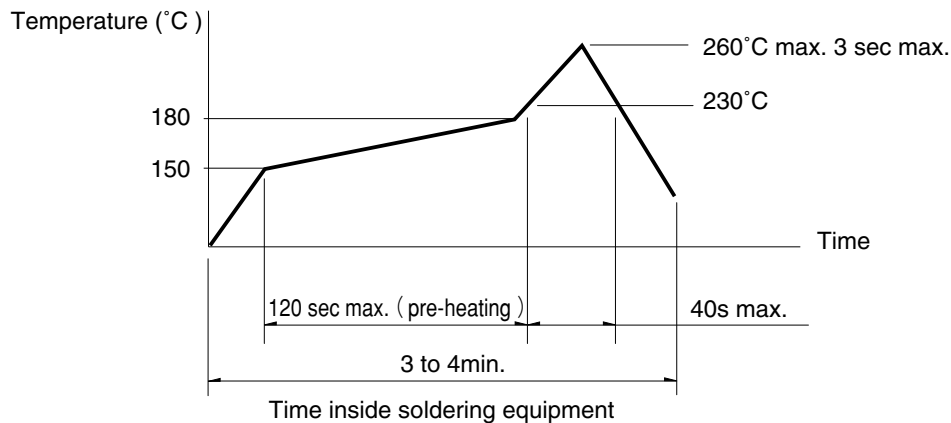
Sharp Feeling  
 Soft Feeling  
 Snap-in Type  
 Surface Mount Type  
 Radial Type

## 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

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 flux
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.

### 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.)

### Manual Soldering (Except SKRT Series)

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line  
Package Type

TACT Switch™

Custom-  
ProductsSharp  
FeelingSoft  
FeelingSnap-in  
TypeSurface  
Mount TypeRadial  
Type