

## 6.2 × 6.3mm (Surface Mount Type)





### A wide variety of products including dust-proof type.

Dust-proof

### Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10μA 1V DC
Initial contact resistance	100mΩ max.
Travel (mm)	0.25

# Product Line Toppush Type

**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

Minimum order unit (pcs.) Operating Operating **Operating life** Drawing Product No. Stem color Stem height direction (5mA 5V DC) force Japan **Export** SKHUAKE010 0.98N Green 300,000cycles SKHUALE010 1.57N Toppush Black 2.5mm 3,000 3,000 1 SKHUAME010 2.55N 100,000cycles Red

**With Ground Terminal Type** 

Product No.	Product No. Operating Operating		Operating life Stem color		Stem height	Minimum ord	Drawing		
Product No.	force	direction	(5mA 5V DC)	Stem color	Stem neight	Japan	Export	No.	
SKHUPKE010	0.98N		300,000cycles	Green					
SKHUPLE010	1.57N	Toppush	300,00000,000	300,000cycles	Black	2.5mm	3,000	3,000	2
SKHUPME010	2.55N		100,000cycles	Red					

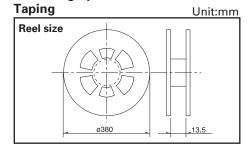
### **Dust-proof Type**

Product No.	Operating Operating life Stem color		Stem height	Minimum ord	Drawing			
Product No.	force	direction	(5mA 5V DC)	Stelli color	Stem neight	Japan	Export	No.
SKHUBHE010	1.57N	Toppush	50,000cycles	Brown	3.1mm	3,000	3,000	3

### **Dust-proof and with Ground Terminal Type**

Product No.	Operating	erating Operating Operating life		Stem color	Stem height	Minimum ord	Drawing	
Product No.	force	direction	(5mA 5V DC)	Stem color	Stem neight	Japan	Export	No.
SKHUQHE010	1.57N	Toppush	50,000cycles	Brown	0.1	3.000	2 000	
SKHUQGE010	2.55N	roppusii		Red	3.1mm	3,000	3,000	4

### Packing Specifications



Numb	er of packages		Export package	
1 reel	1 case / Japan	1 case / export packing	Tape width (mm)	measurements (mm)
3,000	30,000	30,000	12	401 × 401 × 214

#### Note

For reels of 330mm diameter, please inquire.

Dir	nensions			Unit:mm
No.	Photo	Style		PC board land dimensions (Viewed from switch mounting face)
1	Toppush type	7.2 6.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	288	9.5
2	With ground terminal type	7.2 6.2 0.2 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.8	9.5  4 Ground terminal land  0 4 Ground terminal land
3	Dust-proof type	7.2 6.2 6.2 8.9 Stem 4	9:8	9.5
4	Dust-proof and with ground terminal type	7.2 6.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	200	9.5  4  Ground terminal land  0/4  3.1

Circuit Diagram

Toppush type	With ground terminal type
①	1 2 3 4 5 =

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

### ■ List of Varieties

	Time					Shar	p Feeling	Туре				
	Туре		1			Su	rface Mo	unt				
	Series	SKST	SKRA	SKHM	SKHU	SKTD	SKSN	SKSL	SKSC	SKRT	SKRV	SKRH
	Photo	NEW		100		NEW		0,3				
!	Features		ddle ivel	_	_	Low- profile	Mid- mount	Half- mount	Low- profile	_		n switch+ switch
W	ater-proof	_	0	_	0	•	_	_	_	_	_	_
D	ust-proof	0	0	_	0	•	0	0	0	_	_	_
Operatin	Toppush g	•	•	•	•	_	_	_	_	_	•	•
direction	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)	D 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
Operatio force coverage	2N~3N			Ţ	Ţ	<b>‡</b>	<b>\$</b>	<b>‡</b>	1	<b></b>	÷	*
Coverage	9 3N~4N 4N~5N	<b>‡</b>	<b>—</b>									
т	ravel (mm)	0.9	*	0.	25	0.15	0.2	0.15	0.	0.2 **		*
Gro	und terminal	_	_	•	•	•	•	•	•	•	_	_
Operati	ng temperature range		-3	0°C to + 8	5℃		- 40°C to	o + 90°C	- 30°C to	) + 85°C	-20°C to -40°C to +85°C	
Auto	omotive use	•	0	_	0	_	_	_	_	_	_	_
L	ife Cycle	<b>*</b> 2	*3	*3	*3	<b>*</b> 2	<b>*</b> 2	<b>*</b> 2	<b>*</b> 2	<b>*</b> 2	<b>*</b> 2	<b>*</b> 2
	ting (max.) sistive load)	50mA 16V DC					50mA 1	2V DC				
Ra (Re	iting (min.) sistive load)		,			1	0 μ A 1V D	С				
Electrical	Insulation resistance					100M Ω m	in. 100V D	C for 1min				
performance	Voltage proof			250	V AC for 1	min.			100V AC for 1min.			for 1min.
	Vibration			10 to 55 ir	to 10Hz/m the 3 dire	in., the am	plitude is Y and Z fo	1.5mm for or 2hours i	all the freq	uencies, y	1	
Durability -	Lifetime								ecifications			-
	Cold		- 30	0±2℃ for	96h		- 40°C	for 96h	- 30	±2°C for	96h	- 40 ± 2°C for 96h
Environmental performance	Dry heat		80	±2°C for 9	96h		90°C for 96h 80±2		±2°C for	96h	90 ± 2°C for 96h	
	Damp heat					60±2℃,	90 to 95%F	RH for 96h	1			1
	Page	267	268	269	270	272	275	274	275	276	421	422

D: Depth. The most outer dimension excluding terminal portion.

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

 TACT Switch<sup>™</sup> Soldering Conditions 288 ■ TACT Switch<sup>™</sup> Cautions · · · · · · · 289

### 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

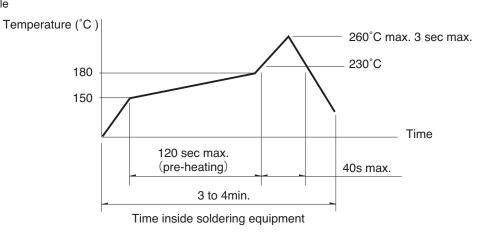
### Condition for Reflow

Available for Surface Mount Type.

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2  $\phi$  CA (K) or CC (T) at solder joints (copper foil surface) .

A heat resistive tape should be used to fix thermocouple.

3. Temperature profile



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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

SKQJ, SKQK, SKE	SNUJ. SNUN. 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<sup>™</sup> 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.)