Excellent water-proof and dust-proof structure suitable for home appliances used around water







■ Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10 µA 1V DC
Initial contact resistance	500mΩ max.
Travel (mm)	0.3

■ Product Line

Top push type

Product No.	Operating force	Operating	Operating life	Stem color	Height	Minimum ord	er unit (pcs.)	Drawing	
T TOUGET INO.	Operating force	direction	(5mA 5V DC)	Sterri color	riegiit	Japan	Export	No.	
SKQBARA010	1.57N			Dark gray	5mm			1	
SKQBASA010	2.55N			Red	Jillill	1.000	1.000	'	
SKQBAPA010	1.57N	Top push	100,000 cycles	Dark gray	13mm				
SKQBAJA010	2.55N	rop pasn	100,000 Cycles	100,000 cycles	Red	1011111	1,000	1,000	2
SKQBAQA010	1.57N			Dark gray	23.2mm				
SKQBAMA010	2.55N			Red					

Side push type

Product No. Operating Operating direction (5mA 5V DC)		Stem color	Minimum ord		Drawing No.		
	force operating direction		(SITIA SV DC)		Japan	Export	INO.
SKQBLBA010	1.57N	Side push	100,000 cycles	Dark gray	1,000	1,000	3

■ Packing Specifications

Bulk

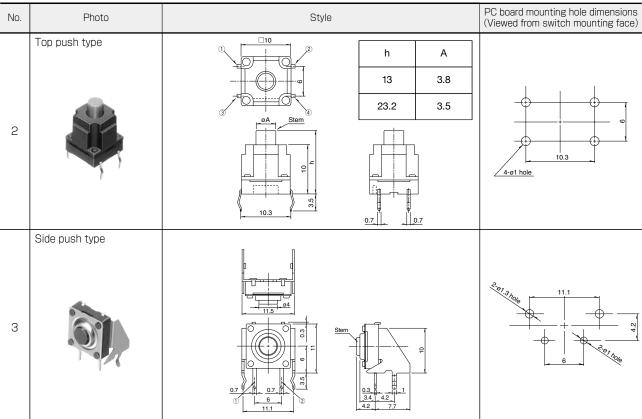
Series	Number of pa	ckages (pcs.)	Export package
Jenes	1 case / Japan	1 case / export packing	measurements (mm)
Other	4,000	12,000	309×476×347
SKQBAQ, SKQBAM	2,000	6,000	309^470^347

Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	Top push type Height: 5mm	3 Stem 4 0.7 0.7 0.7	10.3 4-ø1 hole

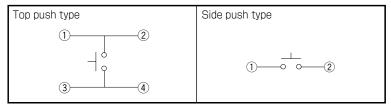
■ Dimensions Unit:mm



Note

Please use 1.6mm thick PC boards.

■ Circuit Diagram



■ Water Resisting Performance

	SKQBAP, SKQBAJ, SKQBAQ, SKQBAM, SKQBAR, SKQBAS	SKQBLB			
Temperature of water	0°C	60°C			
Depth of water	10cm	10cm			
Immersion duration	240h	1h			

- 1. Be sure to apply a coating over the terminals after attaching the switch for waterproof efficiency.
- 2. Avoid using coating material containing toluene or xylene. For more information on coating material, please contact us.

Туре				Sharp Feeling Type						
	туре				Snap-in					
	Series	SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC		
Photo										
	Features	_	_	_	_	_	Long-life	_		
	Water-proof	_	_	_	_	•	_	_		
	Dust-proof	ı	_	•	•	•	•	_		
	IP standard	-	_	_	_	_	_	_		
Operati		•	•	•	•	•	•	•		
directio	Side push	_	_	_	_	_	_	_		
	W	6]6	□6.6	□10		12		
Dimension (mm)		3.5								
	Н	4.3/5	See the relevant pages for respective product descriptions	4.3/5	5	5/13/23.2	See the relev respective prod	ant pages for uct descriptions		
Operation force coverage	2N to 3N 3N to 4N	Ţ		1	Ţ	1	1	Ţ		
	4N to 5N Travel (mm)		★ 25	0.3	0.25		0.3			
		0.		0.0	0.20		0.0			
	round terminal	_	4.000	_		-	-	4000		
Operatir	ng temperature range		-40℃ to +90℃	; 	-20°C to +70°C	-40 C t	:o +90°C	-40℃ to +85℃		
А	utomotive use	•	•	_	_	•	_	_		
	Life Cycle	2	*3	*3	2	2	2	2		
	Rating (max.) (Resistive load)				50mA 12V DC					
Electrical	Rating (min.) (Resistive load)				10μA 1V DC					
performance Insulation resistance 100MΩ min. 100V DC 1min.										
	Voltage proof	250V AC 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 2 hours respectively								
Durability	Lifetime	Shall be in accordance with individual specifications.				S.				
	Cold	-40℃ 96h -30℃ 96h -40℃ 96h			-40°C 96h					
Environmental performance	Dry heat		90℃ 96h		80℃ 96h		90℃ 96h			
	Damp heat		60°C, 90 to	95%RH 96h		60°C, 90 to 95%RH 1,000h				
	Page	186	188	192	193	195	197	199		

 $\ensuremath{\mathsf{W}}$: Width. The most outer dimension excluding terminal portion.

 $\mathsf{D}:\mathsf{Depth}.$ The most outer dimension excluding terminal portion. H: Height. The minimum dimension if there are variances.

- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. Indicates applicability to all products in the series.

	Type			Sharp Feeling Type			
	Type		Sr	nap-in		Radial	
	Series	SKHL	sкнн	SKQJ	SKQB	SKRC	
	Photo				S)	866	
	Features	_	_	_	_	Round terminal type	
	Water-proof	_	_	_	•	•	
	Dust-proof	_	_	•	•	•	
	IP standard	_	_	_	_	_	
Operatir		_	_	_	_	•	
directio	Side push	•	•	•	•	_	
	W	7.3	7.5	7.5	11.5	10	
Dimension (mm)	ons D	7.22	7.85	7.85	11.9	φ 9	
(11111)	Н	4.3	7.4	7.3	11.3	13	
Operation force coverage	2N to 3N		Ţ.	Ţ	•	1	
Travel (mm)			0.25		0.3	0.25	
G	round terminal	•	•	_	_	_	
Operatin	g temperature range	-40℃ ·	to +90℃	-20℃ to +70℃	-40℃ to +95℃	-30°C to +85°C	
А	utomotive use	•	•	_	•	_	
	Life Cycle	2	* 2	* 2	* 2	2	
	Rating (max.) (Resistive load)			50mA 12V DC			
Electrical	Rating (min.) (Resistive load)			10μA 1V DC			
erformance	Insulation resistance	100MΩ min. 100V DC 1min.					
	Voltage proof			250V AC 1min.			
Durability	VIDIALIOII		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 2 hours respectively				
	Lifetime	Shall be in accordance with individual specifi			specifications.		
	Cold	Cold −40°C 96h −30°C 96h		-30℃ 96h	-40℃ 96h		
nvironmental performance	Dry heat	90°0	0 96h	80℃ 96h	90°C	96h	
	Damp heat	(60°C, 90 to 95%RH 9 ⊤	6h	60°C, 90 to 99	5%RH 1,000h	
	Page	186	188	193	195	242	

 $[\]underline{W}$: Width. The most outer dimension excluding terminal portion.

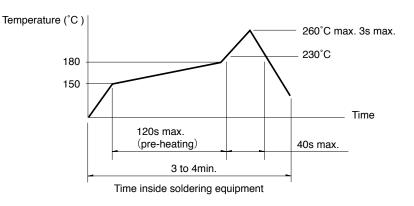
D : Depth. The most outer dimension excluding terminal portion. H : Height. The minimum dimension if there are variances.

TACT Switch™ Soldering Conditions · · · · · · · · · · · · · · · · · · ·	
TACT Switch TM Cautions · · · · · · · · · · · · · · · · · · ·	250

- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. Indicates applicability to all products in the series.

TACT Switch™ / Soldering Conditions

Condition for Reflow Available for Surface Mount Type. Temperature profile



Notes

- 1. Please confirm the specifications of our product for the detailed condition.
- 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	t-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℃ max.			
Duration of immersion	5s max.			
Number of soldering	2times max.			

SKHH 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. 110°C max.		
Preheating time	60s max.		
Soldering temperature	260°C max.		
Duration of immersion	5s max.		
Number of soldering	2times max.		

SKHL Top Push Type, SKQJ Series

Items	Condition			
Flux built-up	Mounting surface should not be exposed to flu			
Preheating temperature Ambient temperature of the soldered surface of PC board. 100				
Preheating time	45s max.			
Soldering temperature	255℃ max.			
Duration of immersion	5s max.			
Number of soldering	2times max.			

■ Manual Soldering

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

SKHH, SKHW Series

Items	Condition
Soldering temperature	360°C max.
Duration of soldering	3s max.
Capacity of soldering iron	60W max.

SKTD, SKTG, SKQJ Series

Items	Condition
Soldering temperature	350°C max.
Duration of soldering	3s max.
Capacity of soldering iron	20W max.

- 1. Prevent flux penetration from the top side of the TACT Switch™.
- 2. Switch terminals and a PC board should not be coated with flux prior to soldering.
- 3. The second soldering should be done after the switch is stable with normal temperature.
- 4. Use the flux with a specific gravity of min 0.81. (EC-19S-8 by TAMURA CORPORATION, or equivalents.)

