

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



TACT Switch™

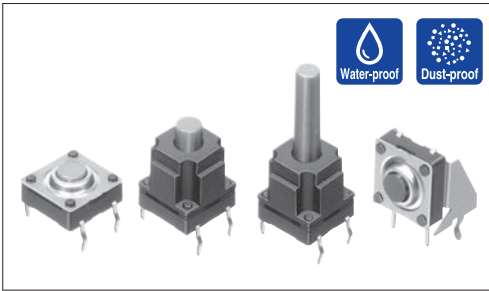
Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type

Radial Type



Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10 μ A 1V DC
Initial contact resistance	500m Ω max.
Travel (mm)	0.3

Product Line

Top push type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Stem height	Minimum order unit (pcs.)		Drawing No.
						Japan	Export	
SKQBARA010	1.57N	Top push	100,000 cycles	Dark gray	5mm	1,000	1,000	1
SKQBASA010	2.55N			Red				
SKQBAPA010	1.57N			Dark gray	13mm			2
SKQBAJA010	2.55N			Red				
SKQBAQA010	1.57N			Dark gray	23.2mm			
SKQBAMA010	2.55N			Red				

Side push type

Product No.	Operating force	Operating direction	Operating life (5mA 5V DC)	Stem color	Minimum order unit (pcs.)		Drawing No.
					Japan	Export	
SKQBLBA010	1.57N	Side push	100,000 cycles	Dark gray	1,000	1,000	3

Packing Specifications

Bulk

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

Dimensions

Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)
1	<p>Top push type Stem height : 5mm</p>		<p>4-ϕ1 hole</p>

Refer to P.265 for soldering conditions.

■ Dimensions

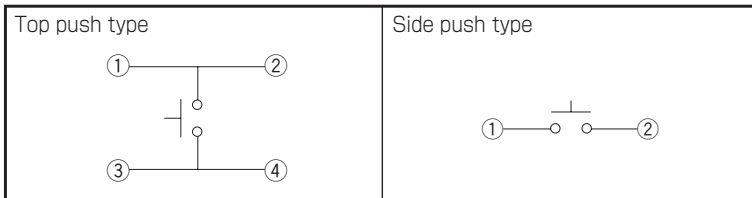
Unit:mm

No.	Photo	Style	PC board mounting hole dimensions (Viewed from switch mounting face)						
2		<table border="1" style="margin-left: 20px;"> <tr> <td>h</td> <td>A</td> </tr> <tr> <td>13</td> <td>3.8</td> </tr> <tr> <td>23.2</td> <td>3.5</td> </tr> </table>	h	A	13	3.8	23.2	3.5	
h	A								
13	3.8								
23.2	3.5								
3									

Note

Please use 1.6mm thick PC boards.

■ Circuit Diagram



■ Water Resisting Performance

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

Notes

1. When the switch is used in an environment subject to high humidity or condensation, make sure the terminals are coated thoroughly to prevent current leakage between terminals.
2. Avoid using coating material containing toluene or xylene. For more information on coating material, please contact us.
3. Switch terminals must be coated thoroughly until the terminals are fully covered.

TACT Switch™

List of Varieties

TACT Switch™















Sharp Feeling Type

Soft Feeling Type

Snap-in Type

Surface Mount Type

Radial Type

Type		Sharp Feeling Type							
		Snap-in							
Series		SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC	
Photo									
Features		—	—	—	—	—	Long-life	—	
Water-proof		—	—	—	—	●	—	—	
Dust-proof		—	—	●	●	●	●	—	
IP standard		—	—	—	—	—	—	—	
Operating direction	Top push	●	●	●	●	●	●	●	
	Side push	—	—	—	—	—	—	—	
Dimensions (mm)	W	6	□6		□6.6	□10	□12		
	D	3.5							
	H	4.3/5	See the relevant pages for respective product descriptions		4.3/5	5	5/13/23.2		
Operation force coverage	1N max.	↕	↕	↕	↕	↕	↕	↕	
	1N to 2N								
	2N to 3N								
	3N to 4N								
	4N to 5N								
Travel (mm)		0.25		0.3	0.25	0.3			
Ground terminal		—	●	—	—	—	—	—	
Operating temperature range		-40°C to +90°C			-20°C to +70°C		-40°C to +90°C		-40°C to +85°C
Automotive use		●	●	—	—	●	—	—	
Life Cycle									
Electrical performance	Rating (max.) (Resistive load)	50mA 12V DC							
	Rating (min.) (Resistive load)	10μA 1V DC							
	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							
	Lifetime	Shall be in accordance with individual specifications.							
Environmental performance	Cold	-40°C 96h			-30°C 96h	-40°C 96h			
	Dry heat	90°C 96h			80°C 96h	90°C 96h			
	Damp heat	60°C, 90 to 95%RH 96h				60°C, 90 to 95%RH 1,000h	60°C, 90 to 95%RH 96h		
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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 265
TACT Switch™ Cautions 266

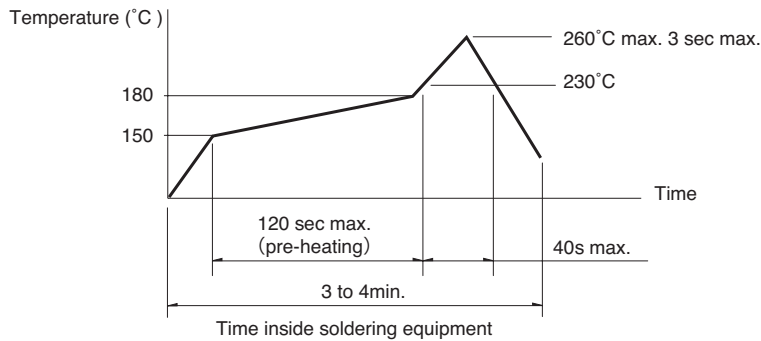
Notes

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

Condition for Reflow

Available for Surface Mount Type.

1. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 CA (K) or CC (T) at solder joints (copper foil surface).
A heat resistive tape should be used to fix thermocouple.
2. 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.

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.

SKHH, SKPD 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.

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	45s max.
Soldering temperature	255°C max.
Duration of immersion	5s max.
Number of soldering	2times max.

Manual Soldering

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.

SKTD, SKTG, SKQJ, SKQK, SKEG Series

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

Notes

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.)

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