6.6mm Square (Snap-in Type)

Dust proof with sharp operational feel suitable for general purpose





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

Top push type

Product No.	Operating force	Operating direction	Operating life	Stem color	Stem height	Minimum ord	Drawing	
T TOUGET NO.	Operating force	Operating direction	(5mA 5V DC)	Otern color	Otom noight	Japan	Export	No.
SKQJAAA010	0.98N		1,000,000 cycles	Black	h=5mm	1,000	1.000	
SKQJABA010	1.57N		500,000 cycles	Dark gray	11—3111111			1
SKQJADA010	0.98N	Top push	1,000,000 cycles	Black	- h=7mm			
SKQJAEA010	1.57N	τορ ραδιτ	500,000 cycles	Dark gray				
SKQJAJA010	0.98N		200.000 cycles	Black	h=9.5mm			
SKQJAKA010	1.57N		200,000 cycles	Dark gray	11=9.5MM			

Side push type

Product No.	Operating force	Operating direction	Operating life	Stem color	Minimum ord	er unit (pcs.)	Drawing
T TOGGOT TVO.	Troducting Operating force Operating di		(5mA 5V DC)	Otom oolo	Japan	Export	No.
SKQJLAA010	0.98N	Side push	1,000,000 cycles	Black	1.000	1,000	2
SKQJLBA010	1.57N	Jide pusit	500,000 cycles	Dark gray	1,000		

Packing Specifications

Bulk

Number of pa	Export package	
1 case / Japan	1 case / export packing	measurements (mm)
10,000	30,000	309×476×347



■ Dimensions Unitmm

No.	Photo	Style		PC board mounting hole dimensions (Viewed from switch mounting face)
1	Top push type	G.6.6 G.6.6 G.6.6 G.7.6 G.7.7 G.7 G	h A 5 3.5 7 3.3 9.5 3	4-ø1 hole 6.5
	Side push type			
2		0.7 4.5 7	Stem 0.3 1 2.52 2.52 3.85 4	2-e1.3 hole 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Note

Please use 1.6mm thick PC boards.

Circuit Diagram

Top push type	Side push type
① - & (2) ③ - (4)	①——————————②

	Turno				Sharp Feeling Typ	е		
	Type				Snap-in			
	Series	SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC
	Photo							
	Features	_	_	_	_	_	Long-life	_
V	Water-proof	_	_	0	_	•	_	_
	Dust-proof	_	_	•	•	•	•	_
ļ.	P standard	_	_	_	_	_	_	_
Operating	Top push	•	•	•	•	•	•	•
direction		_	_	_	_	_	_	_
	W	6			F0.0			1.0
Dimensior (mm)	ns D	3.5		6	□6.6	□10	L]12
(11111)	Н	4.3/5	See the relevant pages for respective product descriptions	4.3/5	5	5/13/23.2	See the rele respective pro	vant pages for duct descriptions
Operatior force coverage	2N to 3N			Ţ	Ţ	Ţ	Ţ	Ţ
Travel (mm)		0	0.25 0.3		0.25		0.3	
Gro	ound terminal	_	•	_	_	_	_	_
Operating	g temperature range	-40℃ to +90℃			−20°C to 70°C	-40°C to	o +90℃	-40℃ to +85℃
Au	tomotive use	•	•	_	_	•	_	_
	Life Cycle	* 2	*3	*3	* 2	* 2	* 2	* 2
	Rating (max.) (Resistive load)				50mA 12V DC			
Electrical	Rating (min.) (Resistive load)				10μΑ 1V DC			
performance	Insulation resistance	100MΩ min. 100V DC 1min.						
	Voltage proof				250V AC 1min.			
D1333	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.						
	Cold	-40℃ 96h			-30°C 96h	-40°C 96h		
Environmental performance	Dry heat		90℃ 96h		80°C 96h	Sh 90°C 96h		
	Damp heat		60°C, 90 to 9	95%RH 96h	1	60°C, 90 to 95%RH 1,000h	60°C, 90 to	95%RH 96h
	Page	193	195	199	200	202	204	206

 $\ensuremath{\mathsf{W}}$: 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.

Notes

- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. Indicates applicability to all products in the series, while \bigcirc indicates applicability to some products in the series.

	Type			S	harp Feeling Typ	е			
	i ype		Sna	p-in			Radial		
	Series	SKHL	SKHH	SKQJ	SKQB	SKRG	SKQK	SKRC	
	Photo	Sar.						888	
	Features	_	_	_	_	Round terminal type	_	Round terminal type	
	Water-proof	_	_	_	•	_	_	•	
	Dust-proof	_	_	•	•	_	_	•	
	IP standard	_	_	_	_	_	_	_	
Operatir	Top push	_	_	_	_	•	•	•	
directio		•	•	•	•	_	_	_	
	W	7.3	7.5	7.5	11.5	10.0			
Dimensio (mm)		7.22	7.85	7.85	11.9	ø 6.2	□6.6	φ 9	
(,	Н	4.3	7.4	7.3	11.3	See the relevant pages for respective product descriptions	5	13	
Operation force coverage	2N to 3N	Ţ	Ţ	1	\$	1	Ţ	1	
	Travel (mm)		0.25		0.3		0.25		
G	round terminal	•	•	_	_	_	_	_	
Operatin	ng temperature range	-40° t	:o +90°C	-20℃ to +70℃	–40℃ to 95℃	-40℃ to +90℃	-20℃ to +70℃	−30°C to +85°C	
А	utomotive use	_	_	_	•	•	_	-	
	Life Cycle	* 2	*3	* 2	* 2	* 2	* 2	* 2	
	Rating (max.) (Resistive load)		,	<u> </u>	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°	C 96h	-30°C 96h	-40°C	C 96h	-30°C 96h	-40℃ 96h	
Environmental performance	Dry heat	90°C	96h	80℃ 96h	90°C	96h	80℃ 96h	90℃ 96h	
	Damp heat	60°0	C, 90 to 95%RH	96h	60°C, 90 to 95%RH 1,000h	60°C, 90 to	95%RH 96h	60°C, 90 to 95%RH 1,000h	
	Page	193	195	200	202	246	248	249	

W: Width. The most outer dimension excluding terminal portion.

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

Notes

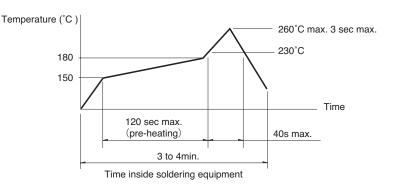
- 1. The automotive operating temperature range to be individually discussed upon request.
- 2. Indicates applicability to all products in the series, while \bigcirc indicates applicability to some products in the series.

TACT Switch™ Soldering Conditions

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

- 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.
- 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℃ 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℃ 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, 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.)

