

6mm Square (Snap-in Type)





User friendly 6.0×.;6.0mm type, available in a wide variety.

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

Typical Specifications

_ : Jp:ca: epecinications					
Items	Specifications				
Rating (max.)	50mA 12V DC				
Rating (min.)	10 µ A 1V DC				
Initial contact resistance	100mΩ max.				
Travel (mm)	0.25				

Product Line Toppush Type

Product No.	Operating	Operating	Operating life	Stem color	Stem height	Minimum ord	ler unit (pcs.)	Drawing
- roudot rio	force	direction	(5mA 5V DC)	010111 00101			Export	No.
SKHHAJA010	0.98N		1,000,000cycles	Black				
SKHHALA010	1.57N		500,000cycles	Dark gray	h=4.3mm			
SKHHAQA010	2.55N		200,000cycles	Red				
SKHHAKA010	0.98N		1,000,000cycles	Black				
SKHHAMA010	1.57N		500,000cycles	Dark gray				
SKHHARA010	2.55N			Red	h=5mm			
SKHHCQA010	3.53N		200,000cycles	Orange		1,000	1,000	1
SKHHCRA010	5.10N			Yellow				
SKHHBVA010	0.98N	Tannuah	1,000,000cycles	Black	h=7mm			
SKHHBWA010	1.57N	Toppush	500,000cycles	Dark gray				
SKHHBYA010	2.55N		200,000cycles	Red				
SKHHANA010	0.98N		1,000,000cycles	Black				
SKHHAPA010	1.57N		500,000cycles	Dark gray	h=9.5mm			
SKHHBSA010	2.55N		200,000cycles	Red				
SKHHDTA010	0.98N		1,000,000cycles	Black	h=13mm			
SKHHDUA010	1.57N		E00 000 avalas	Dark gray	11=13mm			
SKHHDHA010	0.98N		500,000cycles	Black	h=17mm			
SKHHDJA010	1.57N		300,000cycles	Dark gray	11=1/111111			

Joint Stem Type

Product No.	Operating	Operating	Operating life	life Stem color Stem height Minimum order unit (pcs.)			ler unit (pcs.)	Drawing
Product No.	force	direction	(5mA 5V DC)	Stern color	Stem neight	Japan	Export	No.
SKHHCWA010	0.98N		1,000,000 cycles	Black				
SKHHDAA010	1.57N	Toppush	500,000 cycles	Dark gray	h=7.3mm	1,000	1,000	2
SKHHDGA010	2.55N		200,000 cycles	Red				

Product Line

With Ground Terminal Type

Product No.	Operating	Operating	Operating life	Stem color	Stem height	Minimum ord	ler unit (pcs.)	Drawing
Product No.	force	direction	(5mA 5V DC)	Stem color	Stem neight	Japan	Export	No.
SKHHPJA010	0.98N		1,000,000 cycles	Black				
SKHHPLA010	1.57N		500,000 cycles	Dark gray	h=4.3mm			3
SKHHPQA010	2.55N		200,000 cycles	Red				
SKHHPKA010	0.98N		1,000,000 cycles	Black			1,000	
SKHHPMA010	1.57N		500,000 cycles	Dark gray	h=5mm	- 1,000		
SKHHPRA010	2.55N	Toppush	200,000 cycles	Red				
SKHHQVA010	0.98N	τορρασιτ	1,000,000 cycles	Black				
SKHHQWA010	1.57N		500,000 cycles	Dark gray	h=7mm			
SKHHQYA010	2.55N		200,000 cycles	Red				
SKHHPNA010	0.98N		1,000,000 cycles	Black				
SKHHPPA010	1.57N		500,000 cycles	Dark gray	h=9.5mm			
SKHHQNA010	2.55N		200,000 cycles	Red				

Push
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Dual-in-line
Package Type

Sidepush Type

Product No.	Operating	Operating	Operating life	Stem color	Ctomo lom mth	Minimum ord	ler unit (pcs.)	Drawing
Product No.	force	direction	(5mA 5V DC)	Stem color	Stem length	Japan	Export	No.
SKHHLMA010	0.98N		1,000,000 cycles	Black				
SKHHLNA010	1.57N		500,000 cycles	Dark gray	ℓ =3.85mm			
SKHHLPA010	2.55N		200,000 cycles	Red				4
SKHHLQA010	0.98N		1,000,000 cycles	Black			1,000	
SKHHLRA010	1.57N		500,000 cycles	Dark gray	<i>ℓ</i> =8.35mm	- 1,000		
SKHHLSA010	2.55N	Sidepush	200,000 cycles	Red				
SKHHLUA010	0.98N	Sidepusii	1,000,000 cycles	Black				
SKHHLVA010	1.57N		500,000 cycles	Dark gray	ℓ =5.85mm			
SKHHLWA010	2.55N		200,000 cycles	Red				
SKHHNHA010	0.98N		500,000 cycles	Black				
SKHHNJA010	1.57N		300,000 cycles	Dark gray	ℓ =15.85mm			
SKHHNKA010	2.55N		200,000 cycles	Red				

Sharp Feeling Soft Feeling Snap-in Type Surface Mount Type

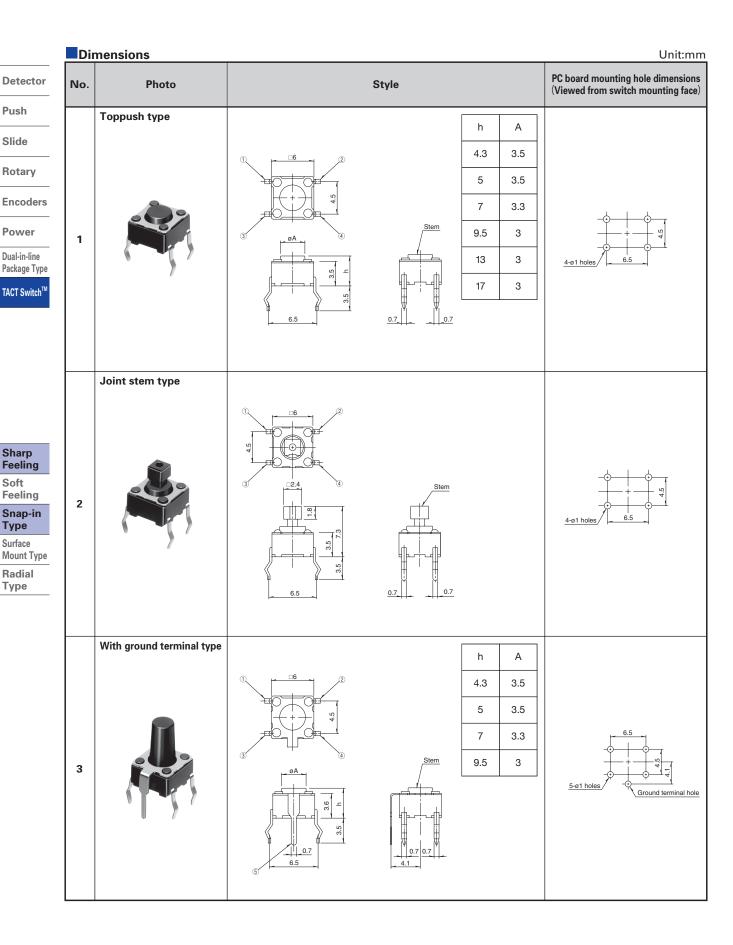
Radial Type

Packing Specifications

Bulk

	Number of pa	Number of packages (pcs.)				
Series	1 case / Japan	1 case / export packing	measurements (mm)			
Other	10,000	30,000				
SKHHDT, SKHHDU SKHHDH, SKHHDJ SKHHNH, SKHHNJ SKHHNK	5,000	15,000	309 × 476 × 347			

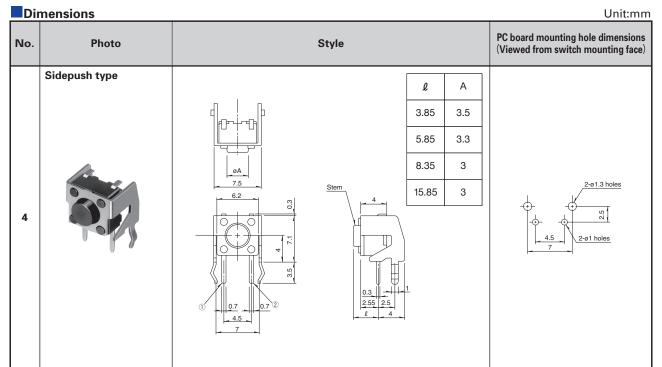
6mm Square (Snap-in Type) **SKHH**



Soft

6mm Square (Snap-in type)

SKHH



Detector

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Dual-in-line Package Type

TACT Switch™

Note

Please use 1.6mm thick PC boards.

Circuit Diagram

Toppush type / Joint stem type	With ground terminal type	Sidepushtype
①	①——② ③——④ ⑤————	①──○○──②

Sharp Feeling

Soft Feeling

Snap-in Type

Surface Mount Type Radial

Type

Product Line of Kno			Unit:mm		
Amuliashla madal	D:	mensions			Variety
Applicable model	Di	mensions	Color	Model	
					Keytop
sкнн		28.28.28.28.28.28.28.28.28.28.28.28.28.2		Red Blue Ivory Black Yellow	SK2AA00410 SK2AA00420 SK2AA00430 SK2AA00440 SK2AA00450

Note

The knob will be delivered together with the switch but packed separately.

TACT Switch™

List of Varieties

Туре

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

	туре	Snap-in									
	Series	SKHR	SKHL	SKHH	SKHW	SKQJ	SKQB	SKQE	SKHC	SKHL	SKHH
	Photo					4					
ı	Features	_	_	_	_	_	_	Long Life	_	_	
W	ater-proof	_	_	_	0	_	•	_	_	_	
D	ust-proof	_	_	_	•	•	•	•	_	_	_
Operatin		•	•	•	•	•	•	•	•	_	_
direction	Side push	_	_	_	_	_	_	_	_	•	•
Dimension	W	□ 4.5	6] 6	□ 6.6	□ 10		12	7.3	7.5
(mm)	В		3.5							7.22	7.85
	H ~1N	3.8		4.3		5	5		4.3		7.4
Operatio force coverage	n 1N~2N 2N~3N				1	—	1	1			
Tì	4N~5N		0.25	¥	0.3	0.25		0.3		0.2	25
Gro	und terminal	_	_	•	_	_	_	_	_	•	•
Operati	ng temperature range	- 30°C to + 85°C	- 40°C to + 90°C		- 30°C to + 85°C	-40°C to +90°C -40°C to +85°C		- 40°C to + 90°C			
Auto	omotive use	_	•	•	_	_	_	_	_	_	
L	ife Cycle	* 2	* 2	*3	*3	* 2	* 2	* 2	* 2	*3	*3
Ra (Re:	ting (max.) sistive load)					50mA 1	2V DC				
Ra (Re:	nting (min.) sistive load)					10 <i>μ</i> A	1V DC				
Electrical	Insulation resistance				1001	VI Ω min. 10	0V DC for	1min.			
performance	Voltage proof		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									
Durability	Lifetime	Shall be in accordance with individual specifications.									
	Cold		- 40 ± 2°	C for 96h		- 30 ± 2°C for 96h		- 43	0 ± 2℃ for	96h	
Environmental performance Dry heat 90 ± 2°C for 96h			C for 96h		- 80 ± 2°C for 96h		90	± 2°C for 9	06h		
	Damp heat	60 ±	2°C , 90 to	95%RH for	r 96h	60 ± 2°C , 90 to 95%RH for 1000h		$60\pm2^\circ\!\!\!\mathrm{C}$, 90 to 95%RH for 96h			
	Page	229	230	232	236	237	239	241	243	230	232
					١٨/ -	Width. The	n moet out	or dimonoi	on ovoludi	na tormina	Inortion

Sharp Feeling Type

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

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

■ TACT Switch[™] Soldering Conditions · · · 288 ■ TACT SwitchTM Cautions · · · ·

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

TACT Switch™ Soldering Conditions

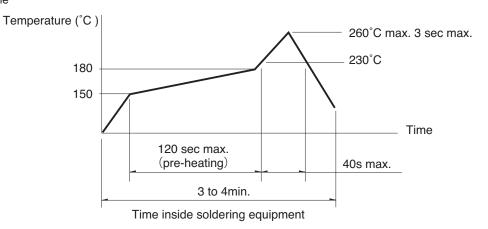
Condition for Reflow

Available for Surface Mount Type.

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple 0.1 to 0.2 ϕ 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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- 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.

SKQJ、SKQK、SKEG Series

SKQJ, SKQK, SKEG Selles					
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 m					
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[™] 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.)