4-direction with Center-push Function (Surface Mount Type)

Body hight of 1.85mm available with long-life of 1 million life cycles





Typical Specifications

Items	Specifications
Rating (max.)	50mA 12V DC
Rating (min.)	10µA 1V DC

Product Line

Product No.	Operatir	Operating force		Travel (mm)		Initial contact	Stem	Guide	Minimum order unit (pcs.)	
Product No.	4-direction	Center-push	4-direction	Center-push	(5mA 5V DC)	resistance	color	bosses	Japan	Export
SKRHAAE010	1.23N		0.25	25 0.15 -	200,000 cycles for each direction	500mΩ	Black	Without	1,300	1,300
SKRHABE010	1.2311	2.35N				max.	DIACK	With		
SKRHACE010	1.2N	2.3311	0.20		1,000,000 cycles	100mΩ	 Natural	Without		
SKRHADE010	1.ZN				for each direction	max.	ivatulal	With		

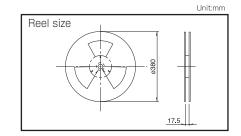
Note

4-directional operating force and travel are measured at 4.3mm height from the bottom of the switch.

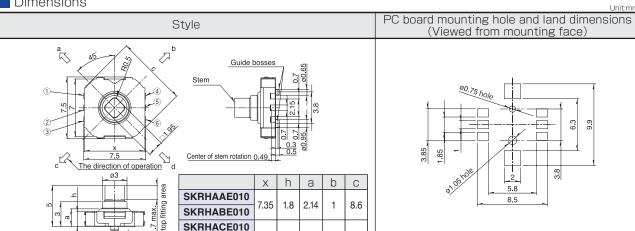
Packing Specifications

Taping

Numb	er of packages	Tape width	Export package		
1 reel	1 case / Japan 1 case / export packing		(mm)	measurements (mm)	
1,300	10,400	10,400	16	401×401×214	



Dimensions

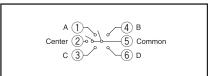


7.45 | 1.85 | 2.17

SKRHADE010

1.6 8.7

Circuit Diagram



	Type			Switch	n type		
						SKRH	
(Series		RKJXL	RKJXS	SKRV	SKRHAA/AB SKRHAC/AD	
	Photo		**			*	
Dimensions		W	10	11.7	6.45	7.35/7.45	
(typical value		D	- 13	11.7	6.4	7.5	
(mm)		Н	6.4	2.3	4	5	
Number of	operating	shafts		Single	-shaft		
Shaf	t materia	al	Metal		Resin		
Directio	nal resol	ution	8-dire	ection	4-dire	ection	
Directional (tact	operating		Without	'	With		
Lever ret	urn mecha	nism		Wi	th		
Center-	push sw	itch		Wi	th		
Е	ncoder			With	nout		
Operating t	emperature	e range	-30℃ to +70℃	-20℃ to	o +70℃	-40°C to +85°C	
Operating	Directional	operation	total with 8-direction 100,000 cycles	500,000 cycles for each direction	200,000 cycles for each direction	200,000 cycles for each direction 1,000,000 cycles for each direction	
life			100,000 cycles	500,000 cycles	200,000 cycles	200,000 cycles 1,000,000 cycles	
Encoder -		_	_	_	_		
Autor	motive us	se	•	_	_	_	
Life cycl	e (availal	oility)	★ 2	*2	★ 2	*2	
Rating (ma	x.) (Resistiv	e load)	10mA	5V DC	50mA	12V DC	
Electrical	Output voltage		_	Measuring Strumman Measuring Herminal Measuring Her	-	_	
	Encoder re	esolution	_	_	_	_	
	Insulation r	esistance	100MΩ min. 250V DC	50MΩ min. 50V DC	100MΩ mi	n. 100V DC	
	Voltage	e proof	300V AC for 1min. or 360V AC for 2s	50V AC for 1min. or 60V AC for 2s	100V AC	C for 1min.	
	Directional op	erating force	10±7mN·m	0.8±0.5N	1.2±0.6N	1.23±0.69N 1.2±0.69N	
	Push opera	ting force	4.5±1N	2.5±1.5N	2.4±0.69N	2.35±0.69N	
Mechanical	Encoder det	ent torque	_	_	_	_	
performance	Terminal		_	_	_		
	Actuator Push / pull directions 100N (Push), 50N (Pu		100N (Push), 50N (Pull)	30N (Push), 10N (Pull)	_	_	
	strength	Operating direction	100N	20N	29	.4N	
Forir	Со	ld	-40°C 500h	-40℃ 96h	-30°C 96h	-40°C 96h	
Environmental performance	Dry h	neat	85℃ 500h	85℃ 96h	80℃ 96h	90℃ 96h	
	Damp	heat	60°C, 90 to 95%RH 500h		60℃, 90 to 95%RH 96h		
	Page		451	452	453	454	

Note Indicates applicability to all products in the series.



Switch Type / Soldering Conditions

Reference for Manual Soldering

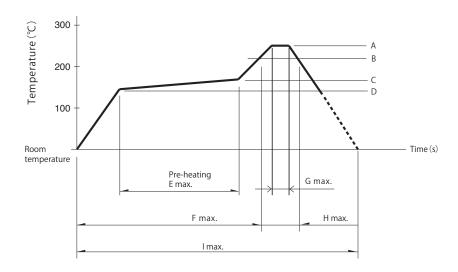
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRV, SKRH	350±5℃	3s max.	1 time	
RKJXS	350±10℃	3 ⁺¹ ₋₀ s	2 time max.	

Reference for Dip Soldering

Series	Prehe	ating	Dip so	No. of solders	
Selles	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	No. or soluers
RKJXT1F, RKJXM	100°C max.	2 min. max.	260±5℃	5±1s	2 time max.
RKJXL	120°C max.	70s max.	260°C max.	6s max.	2 time max.

■ Example of Reflow Soldering Condition

Temperature profile



Series	А	В	С	D	Е	F	G	Н	ı	No. of reflows
RKJXS	260℃	230℃	150℃	150℃	2 min.	_	10s	40s	4 min.	1 time
SLLB5	250℃	230℃	150℃	150℃	_	2 min.	_	30s	_	1 time
SKRV, SKRH, SLLB, SRBE	260℃	230℃	180℃	150℃	2 min.	_	_	40s	_	1 time

Notes

- 1. The above temperature shall be measured on the mounting surface of a PC board. 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.

