

■ Typical Specifications

Ite	ms	Specifications			
Rating (max.) (Re	sistive load)	10mA 5V DC			
Contact resistance	8-direction Center-push	500mΩ max.			
Operating angle (8	3-direction)	Each direction 12° ±3°			
Travel (Center-pu	sh)	0.2±0.1mm			
Operating life	8-direction	Total with 8-direction 100,000 cycles			
Operating life	Center-push	100,000 cycles			

Product Line

Product No.	Maximum	Operatii	ng force	Minimum order unit (pcs.)		
Product No.	resolution	Direction (mN·m)	Center-push (N)	Japan	Export	
RKJXL100401V	RKJXL100401V 8方向		4.5±1	800	800	

Packing Specifications

Tray

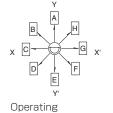
Number of pa	Export package	
1 case / Japan	measurements (mm)	
800	1,600	380×545×150

Dimensions

Unit:mm PC board mounting hole dimensions Style (Viewed from mounting side) 6.4 3.5 Operating angle Center of shaft rotation C1 10.8

Output Relation Chart Between Lever Position and ON Position.

Terminal The direction of the operation	Α	В	С	D	Е	F	G	Н	C1	C2	1	2
Α	ON								ON			
В		ON							ON			
С			ON						ON			
D				ON					ON			
Е					ON					ON		
F						ON				ON		
G							ON			ON		
Н								ON		ON		
Center Push											ON	ON

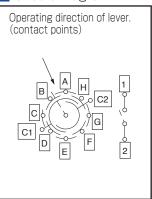


Operating direction of lever.

 Shorting areas exist between adjacent terminals

**Between H and A, and D and E,
both C1 and C2 are connected

Circuit Diagram



	Type			Switch	h 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-dir	ection			
Directional (tact	operating		Without		With				
Lever ret	urn mecha	nism		Wi	ith				
Center-	push sw	itch		Wi	ith				
Е	ncoder			With	nout				
Operating temperature range			-30℃ to +70℃	–20°C t	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 1,000,000 c for each direction direction	h		
Operating - life	Center-push		100,000 cycles	500,000 cycles	200,000 cycles	200,000 cycles 1,000,000 cycl			
	Encoder		_	_	_	_			
Autor	motive us	se	•	_	_	_			
Life cycl	e (availal	oility)	* 2	*2	*2				
Rating (ma	x.) (Resistiv	e load)	10mA	5V DC	50mA	12V DC			
Electrical	Output	Output voltage —		Measuring SKQ circuit Measuring terminal Timm*	_	_			
			_	_	_	_			
	Insulation r	esistance	100MΩ min. 250V DC	50MΩ min. 50V DC	100MΩ mi	in. 100V DC			
	Voltage 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 operating force 10±7		10±7mN·m	0.8±0.5N	1.2±0.6N	1.23±0.69N 1.2±0.69	9N		
	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 strength Actuator strength Push / pull directions Strength Operating direction				_	_	_	_	
			100N (Push), 50N (Pull)	30N (Push), 10N (Pull)	_				
			100N	20N	29	.4N			
	Со	ld	-40℃ 500h	-40℃ 96h	-30℃ 96h	-40°C 96h			
Environmental performance	Dry h	neat	85℃ 500h	85℃ 96h	80℃ 96h	90℃ 96h			
	Damp	heat	60℃, 90 to 95%RH 500h		60°C, 90 to 95%RH 96h				
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Note Indicates applicability to all products in the series.



Switch Type / Soldering Conditions

Reference for Manual Soldering

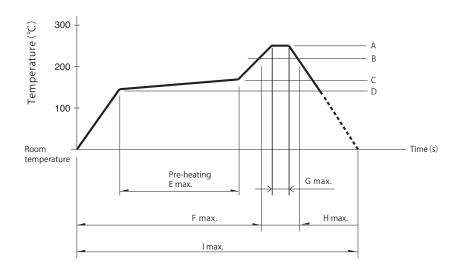
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRV, SKRH	350±5℃	3s max.	1 time	
RKJXS	350±10℃	3 ⁺¹ ₋₀ s	2 time max.	

Reference for Dip Soldering

Series		Preheating		Dip so	No. of solders	
		Soldering surface temperature	Heating time	Soldering temperature	Soldering time	No. or soluers
		100°C max.	2 min. max.	260±5℃	5±1s	2 time max.
ı	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.

