

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	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.)		
Floudet No.	resolution	Direction (mN·m)	Center-push (N)	Japan	Export	
RKJXL100401V	8-direction	10±7	4.5±1	800	800	

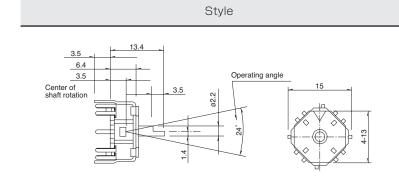
Packing Specifications

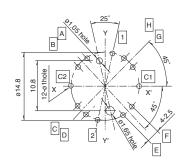
Tray

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

Dimensions

Unit:mm



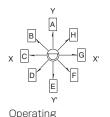


PC board mounting hole dimensions

(Viewed from mounting side)

Output Relation Chart Between Lever Position and ON Position.

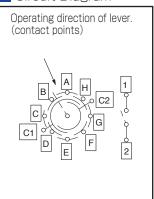
Terminal The direction of the operation	Α	В	С	D	Е	F	G	Н	C1	C2	1	2
Α	ON								ON			
В		ON							ON			
С			ON						ON			
D				ON					ON			
E					ON					ON		
F						ON				ON		
G							ON			ON		
Н								ON		ON		
Center Push											ON	ON



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



	Туре		Switch type				
		5 17.197		SK	RH		
	Series	RKJXL	RKJXS	SKRHAA/AB	SKRHAC/AD		
	Photo						
Dimension	W	10	11.7	7.35.	/7.45		
Dimensions (typical valu		13	11.7	7			
(mm)	Н	6.4	2.3	!	5		
Number of	Number of operating shafts		Single-shaft				
Sha	ft material	Metal	F	Resin			
Directio	nal resolution	8-dire	ection	4-dire	ection		
	operating feeling tile feeling)	Without	,	With			
	turn mechanism		l With				
	-push switch		With				
	ncoder		Without				
Operating ¹	temperature range	-30℃ to +70℃	-20°C to +70°C	-40°C t			
Ozzatina	Directional operation	total with 8-direction 100,000 cycles	500,000 cycles for each direction	200,000 cycles for each direction	1,000,000 cycles for each direction		
Operating life	Center-push	100,000 cycles	500,000 cycles	200,000 cycles	1,000,000 cycles		
Encoder		_	_	-	_		
Auto	motive use	•	_	-	_		
Life cyc	le (availability)	*2	*2	×	2		
Rating (ma	x.) (Resistive load)	10mA	50mA 12V DC				
Floatrical	Output voltage	_	Measuring SV SV Measuring SV Measuring SV Measuring Meas	-	_		
Electrical performance	Encoder resolution			_			
	Insulation resistance	100MΩ min. 250V DC	50MΩ min. 50V DC	100MΩ mi	n. 100V DC		
	Voltage proof	300V AC for 1min. or 360V AC for 2s	50V AC for 1min. or 60V AC for 2s	100V AC	ofor 1min.		
	Directional operating force	10±7mN·m	0.8±0.5N	1.23±0.69N	1.2±0.69N		
	Push operating force	4.5±1N	2.5±1.5N	2.35±0.69N			
Mechanical	Encoder detent torque	_	_	-	_		
performance	Terminal strength	_	_	-	_		
	Actuator Push / pull directions	100N (Push), 50N (Pull)	30N (Push), 10N (Pull)	_			
	strength Operating direction	100N	20N		.4N		
Environmental	Cold	-40°C 500h		0°C 96h T			
performance	Dry heat	85°C 500h	85°C 96h	_	96h		
	Damp heat	60°C, 90 to 95%RH 500h	·	o 95%RH 96h	25		
	Page	463	464	4	65 		

Note

• Indicates applicability to all products in the series.



Switch Type / Soldering Conditions

Reference for Manual Soldering

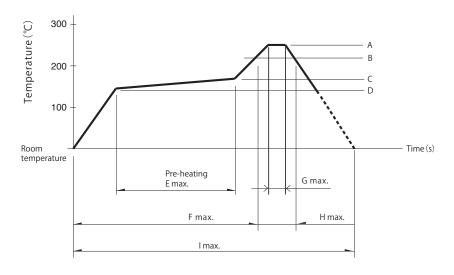
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRH	350±5℃	3s max.	1 time	
RKJXS	350±10℃	3 ⁺¹ ₋₀ s	2 time max.	

Reference for Dip Soldering

Series	Prehe		Dip so	No. of solders	
Jenes	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

- 1. Heating method: Double heating method with infrared heater.
- 2. Temperature measurement: Thermocouple ϕ 0.1 to 0.2 CA (K) or CC (T) at soldering portion (copper foil surface). A heat resisting tape should be used for fixed measurement.
- 3. 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
SKRH, SLLB, SRBE	260℃	230℃	180℃	150℃	2 min.	_	_	40s	_	1 time

- 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.