The compact size provides improved flexibility in set design







Typical Specifications

Ite	ms	Specifications
Rating (max.) (Resistive load)		10mA 5V DC
Contact resistance	8-direction Center-push	1Ω max.
Operating angle (8-direction)		A·B·C·D direction: 10° max. AB·BC·CD·DA direction: 12° max.
Travel (Center-push)		0.3±0.2mm
Operating life	total with 8-direction	100,000 cycles
Operating me	Center-push	100,000 cycles

Product Line

Product No.	Maximum	Operating force	Minimum order unit (pcs.)		
resolution	Direction	Center-push	Japan	Export	
RKJXM1015004	8	A·B·C·D direction : 30±20mN·m AB·BC·CD·DA direction : 25±20mN·m	3±1.5N	1,000	2,000

Packing Specifications

Tray

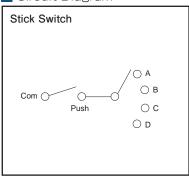
Number of pa	Export package	
1 case / Japan	measurements (mm)	
1,000	2,000	405×290×200

Dimensions

PC board mounting hole dimensions (Viewed from mounting side) Style 2-2 ø1.1 hole Push ø9.9 9-ø1 hole Operating direction of lever.

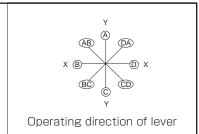


Circuit Diagram



Output Relation Chart Between Lever Position and ON Position.

	Operation procedure									
Terminal	Α	AB	В	ВС	С	CD	D	DA	Center Push	
Com-A	ON	ON						ON		
Com-B		ON	ON	ON						
Com-C				ON	ON	ON				
Com-D						ON	ON	ON		
Com-Push	ON	ON	ON	ON	ON	ON	ON	ON	ON	



	Туре		Switc	h type		
S	Series	RKJXT1F	RKJXM	RKJXW	RKJXL	
Photo			**	淡		
Dimensior (mm)	w D	17	11	36 48.5	- 13	
(11111)	Н	10.5	6.6	26.5	6.4	
Shat	t material		Me	etal		
Directio	nal resolution	4-direction		8-direction		
	operating feeling ile feeling)		With		Without	
Lever ret	urn mechanism		W	ith		
Center	push switch		W	ith		
Е	ncoder	With	Without	With	Without	
Operating t	emperature range	range		-30°C to +70°C		
Operating	Directional operation	Total with 4-direction	Total with 8-direction	30,000 cycles for each direction	8 directions total: 100,000 cycles	
life	Operating life Center-push 50,000 cycles		100,000 cycles	30,000 cycles	100,000 cycles	
	Encoder	15,000 cycles	_	30,000 cycles	_	
Auto	motive use	•	•	•	•	
Life cycl	e (availability)	* 2	* 2	* 2	* 2	
Rating (ma	x.) (Resistive load)		10mA	5V DC		
	Output voltage	_	_	_	_	
Electrical	Encoder resolution	15pulses/360°	_	15pulses/360°	_	
performance	Insulation resistance		100MΩ mii	n. 250V DC		
	Voltage proof	250V AC	C for 1min.	360V AC for 2s	300V AC for 1min. or 360V AC for 2s	
	Directional operating force	40±25mN·m	Direction A, B, C, D 30±20mN·m Direction AB, BC, CD, DA 25±20mN·m	- 2.5±1.5N	10±7mN·m	
Mechanical	Push operating force	5±2N		l 1.5N	4.5±1N	
performance	Encoder detent torque	15±8mN·m	_	30±20mN·m	4.0±110	
	Terminal strength	5N fo	l r 1min.	_	_	
	Actuator Push / pu	100N (Push/Pull)	100N (Push), 50N (Pull)	100N (Push)	100N (Push), 50N (Pull)	
		Operating O 4N-m		50N	100N	
	Cold		_40°C	500h	<u>'</u>	
Environmental performance	Dry heat		85°C	500h		
ponomiumo	Damp heat		60℃, 90 to 9	95%RH 500h		
	Page	398	400	402	404	

Note

• Indicates applicability to all products in the series.

Switch Type Multi Control Devices / Soldering Conditions

Reference for Manual Soldering

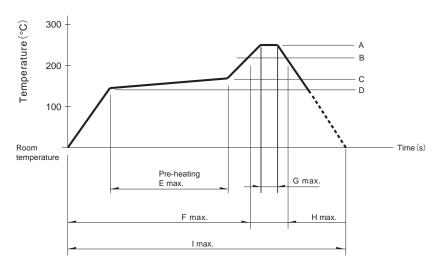
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRH	350±5℃	3s max.	1 time	

■ Reference for Dip Soldering

Series	Prehe	ating	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	I	No. of reflows
SLLB5	250℃	230℃	150℃	150℃	_	2 min.	_	30s	_	1 time
SLLB, SRBE	260℃	230℃	180℃	150℃	2 min.	_	_	40s	_	1 time
SKRH	260℃	230℃	180℃	150℃	2 min.	_	3s	40s	3-4 min.	2 times

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.

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