



RKJXT1F42001

Alps Electric

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A space-saving device with single shaft 4-directions/ push/encoder







■ Typical Specifications (Stick Switches)

Ite	ms	Specifications
Ratings (max.) (Resistive load)		10mA 5V DC
Contact resistance	4-direction Center-push	1Ω max.
Operating angle (4-	direction)	Each direction 9° max.
Travel (Center push)		0.3±0.2mm
Operating life	Total with 4-direction	50,000 cycles
Operating life	Center-push	50,000 cycles

■ Typical Specifications (Encoders)

Items	Specifications
Ratings (max.) (Resistive load)	10mA 5V DC
Operating life	15,000 cycles

Product Line

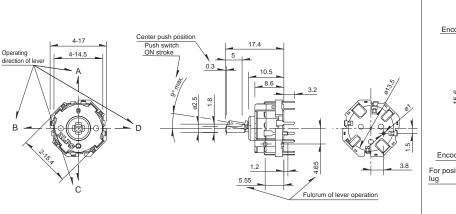
Product No.	Stick Switches Maximum Operating force			Encoder			Minimum order unit (pcs.)	
	resolution			Detent torque	Number of detent	Number of pulse	Japan	Export
RKJXT1F42001	4	40±25mN·m	5±2N	15±8mN⋅m	30	15	1,320	2,640

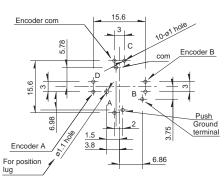
Packing Specifications

Tray

Number of pa	Export package	
1 case / Japan	measurements (mm)	
1,320	2,640	555×375×333

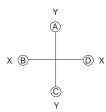
Dimensions PC board mounting hole dimensions Style (Viewed from mounting side)





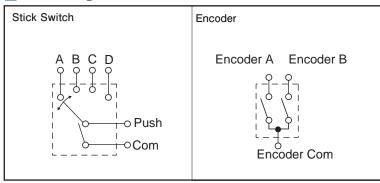
Output Relation Chart Between Lever Position and ON Position.

		Opera	ating Dir	ection	
Terminal	Α	В	С	D	Center push
Push-A	ON				
Push-B		ON			
Push-C			ON		
Push-D				ON	
Push-Com	ON	ON	ON	ON	ON

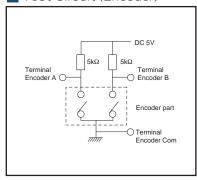


Operating direction of lever

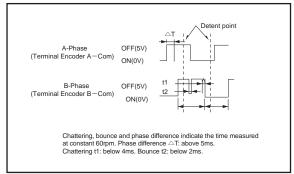
Circuit Diagram



■ Test Circuit (Encoder)



Output Signal (Encoder)



	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				
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		-40°C to +85°C		-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	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	Life cycle (availability)		* 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	_
	Terminal strength	5N fo	l r 1min.	_	_
	Actuator Push / pu	100N (Push/Pull)	100N (Push), 50N (Pull)	100N (Push)	100N (Push), 50N (Pull)
	strength Operating direction		0.3N·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

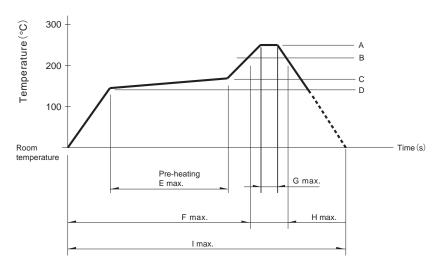
Series	Tip temperature	Soldering time	No. of solders	
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRH	350±5℃	3s max.	1 time	

■ Reference for Dip Soldering

Series	Preheating		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.