Single and dual shaft structured device contributes to simple operation and space saving







■ Typical Specifications (Inner-shaft Stick Switch)

Ite	ems	Specifications		
Rating (max.) (Re	sistive 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-pu	sh)	0.3±0.2mm		
Operating life	8-direction Center-push	Total with 8-direction 100,000 cycles Center-push 100,000 cycles		

■ Typical Specifications (Outer-shaft Encoder)

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

Product Line

Product No.	Shaft	Stick S	witch (Inner-shaft)	Encod	ers (Outer-	shaft)	Minimum ord	Drawing	
Product No.	Slidit	Maximum resolution	Operating force	Detent torque	Number of detent	Number of pulse	Japan	Export	No.
RKJXM1015001	1	0	A-B-C-D direction: 30±20mN·m		_		1,000	2,000	1
RKJXM2E13001	2		AB·BC·CD·DA direction: 25±20mN·m Center-push: 3±1.5N	12±8mN·m	15	15	800	1,600	2

Packing Specifications

Tray

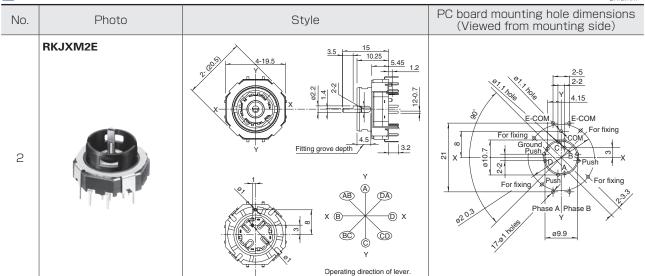
Product No.	Number of pa 1 case / Japan	Export package measurements (mm)			
RKJXM10	1,000	2,000	290×405×200		
RKJXM2E	RKJXM2E 800		380×545×205		

Dimensions

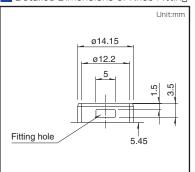
	Unitmm								
No.	Photo	Style	PC board mounting hole dimensions (Viewed from mounting side)						
1	RKJXM10	A D A D A D A	Ø1.1 hole ON Push Push Push Push Push Push Push Push						



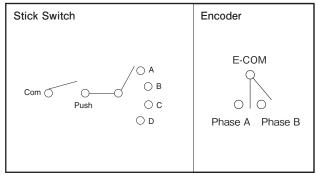
Dimensions



Detailed Dimensions of Knob Fitting

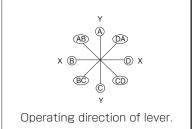


Circuit Diagram

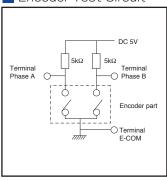


Output Relation Chart Between Lever Position and ON Position.

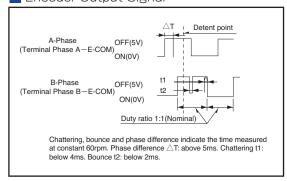
		Operation procedure							
Terminal	Α	AB	В	ВС	С	CD	D	DA	Center Push
Com-A	ON	ON						ON	
Com-B		ON	ON	ON					
Com-C				ON	ON	ON			
Com-D						ON	ON	ON	
Com-Push	ON	ON	ON	ON	ON	ON	ON	ON	ON



Encoder Test Circuit



■ Encoder Output Signal



	Туре				Switch type						
				RK	JXM	RK	JXW				
Series		RKJXT1F	RKJXM1	RKJXM2	RKJXW1	RKJXW2					
Photo		3	**	类	NEW	NEW COLOR					
·	W					36	61				
Dimensions (typical value		D	17	11	19.5	48.5	70				
(mm)		Н	10.5	6.6	5.45	26.5	17				
Number of	operating	shafts	Single-	-shaft	Dual-shaft	Single-shaft	Dual-shaft				
Shaf	t materia	al	Me	tal	The inner shaft: Metal The outer shaft: Resin	Metal	Resin				
Direction	nal resol	ution	4-direction		8-dire	ection					
Directional (tact	operating ile feeling	_			With						
Lever ret	urn mecha	nism			With						
Center-	push sw	itch			With						
Е	ncoder		With	Without	With						
Operating t	emperature	e range		-40℃ to +85℃							
Operating	Directional operation Center-push				8-direction 0 cycles	30,000 cycles	for each direction				
life	Encoder		15,000 cycles	_	15,000 cycles	_	O cycles				
Autor	notive us		10,000 cycles	13,000 Gydles		00,00	O Cycles				
Life cycl	e (availal	oility)	X 2	* 2		* 2	X 2				
Rating (ma	x.) (Resistiv	e load)			10mA 5V DC						
	Output	/oltage	_	_	_	_	_				
Electrical	Encoder re	esolution	15pulses/360°	_		15pulses/360°					
performance	Insulation r	esistance		100MΩ mi	n. 250V DC		10MΩ min. 50V DC				
	Voltage	e proof		250V AC for 1min.		360V AC for 2s	60V AC for 2s				
	Direct	ional	40 05 1		A, B, C, D OmN·m	OFLIEN	3.5±2N				
	operating force		40±25mN·m	Direction AB, BC, CD, DA 25±20mN·m		2.5±1.5N	3.3±2N				
Mechanical	Push opera	ting force	5.2±2.6N	7.4:	±3N	3±	1.5N				
performance	Encoder det	ent torque	15±8mN·m	_	12±8mN·m	30±20mN⋅m	40±16mN·m				
	Terminal :		5N for 1min.		_	_	_				
	Actuator	Push / pull directions	100N (Push/Pull)	100N (Push), 50N (Pull)	100N (Push/Pull)	100N (Push), — (Pull)				
	strength	Operating direction	0.4N·m	0.3	N·m	50N	100N				
	Co	ld			-40℃ 500h						
Environmental performance	Dry h	neat			85℃ 500h						
	Damp	heat	60℃, 90 to 95%RH 500h								
	Page		443	4.	45	4	47				

Note • Indicates applicability to all products in the series.



Switch Type / Soldering Conditions

Reference for Manual Soldering

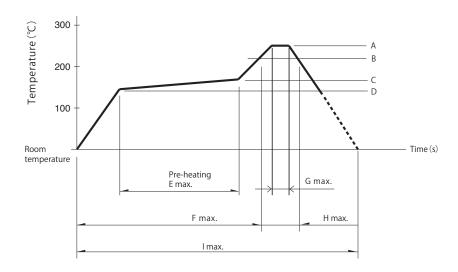
Series	Tip temperature	Soldering time	No. of solders
RKJXT1F, RKJXM, RKJXL, SLLB, SLLB5, SRBE, SKRV, SKRH	350±5℃	3s max.	1 time
RKJXS	350±10℃	3 ⁺¹ ₋₀ s	2 time max.

Reference for Dip Soldering

Series		Prehe	ating	Dip so	No. of solders	
		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.

