

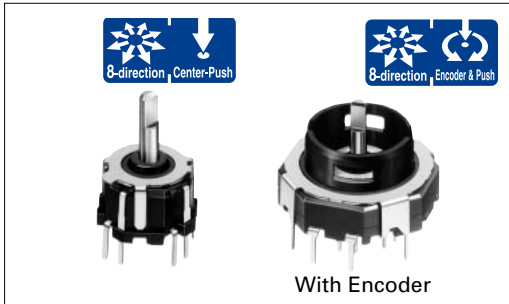
8-directional Stick Switch (with Center-push Function)

RKJXM Series



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

Multi Control Devices



Typical Specifications(Inner-shaft Stick Switch)

Items		Specifications
Rating(max. χ Resistive load)		10mA 5V DC
Contact resistance	Lever operation	1 max.
	Push operation	
Operating force		A·B·C·D direction : $30 \pm 20\text{mN}\cdot\text{m}$ AB·BC·CD·DA direction : $25 \pm 20\text{mN}\cdot\text{m}$
Operating angle (Lever operation)		A·B·C·D direction : 10°max. AB·BC·CD·DA direction : 12°max.
Travel(Push operation)		$0.3 \pm 0.2\text{mm}$
Operating life	8-direction	total with 8-direction 100,000cycles
	Center-push	100,000cycles

Typical Specifications(Outer-shaft Stick Encoder)

Items		Specifications
Rating(max. χ Resistive load)		10mA 5V DC
Detent torque		$12 \pm 8\text{mN}\cdot\text{m}$
Operating life		15,000cycles













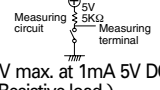
Variable Resistor Type

Switch Type

Product Line

Shaft	Maximum resolution		Minimum order unit (pcs.)	Product No.	Drawing No.
	Direction	Encoder			
1	8	_____	1,000	RKJXM1015001	1
2		15-pulses/15-detents		RKJXM2E13001	2

List of Varieties

Series		Switch type										
		RKJXT1F	RKJXM	RKJXL	RKJXS	SKRV	SKRH					
Items		SKRHAA, SKRHAB		SKRHAC, SKRHAD								
Photo												
Function												
Dimensions (typical value) (mm)	W	17		13		11.7		6.45		7.35/7.45		
	D	20.5		6.4		12.3		6.4		7.5		
	H	10.5		6.4		2.3		4		5		
Outlined specifications	Number of operating shafts	Single-shaft		Single-shaft/Dual-shaft		Single-shaft						
	Shaft material	Metal				Resin						
	Directional resolution	4-direction		8-direction				4-direction				
	Directional operating feeling (tactile feeling)	With			Without		With					
	Lever return mechanism	With										
	Center-push switch	With										
	Encoder	With		Without/With		Without						
Operating temperature range		-40 to +85		-30 to +80		-30 to +70		-20 to +70		-30 to +85		
Rating (max. χ Resistive load)		10mA 5V DC						50mA 12V DC				
Electrical performance	Output voltage	_____						 1V max. at 1mA 5V DC (Resistive load)		_____		
	Directional resolution	4-direction		8-direction				4-direction				
	Insulation resistance	100M min. 250V DC				50M min. 50V DC		100M min. 100V DC				
	Voltage proof	300V AC for 1min. or 360V AC for 2s				50V AC for 1min.		100V AC for 1min.				
	Directional operating force	40 ± 25mN·m		Direction A, B, C, D 30 ± 20mN·m Direction AB, BC, CD, DA 25 ± 20mN·m		10 ± 7mN·m		0.8 ± 0.5N		1.2 ± 0.6N		1.23 ± 0.69N
Mechanical performance	Push operating force	5 ± 2N		3 ± 1.5N		4.5 ± 1N		2.5 ± 1.5N		2.4 ± 0.69N		2.35 ± 0.69N
	Encoder detent torque	15 ± 8mN·m		12 ± 8mN·m		_____						
	Terminal strength	5N for 1min.										
	Actuator strength	Pushing direction	100N				30N		_____			
		Operating direction	0.4N·m		0.3N·m		0.15N·m		20N		_____	
Endurance	Vibration	8.3 ± 1 to 200 ± 4 to 8.3 ± 1Hz, 4.4G fixed (for 15 min./1 cycle) 3 angles each 2 hours						10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively				
	Operating life without load	_____										
	Operating life with load (at rated load)	_____										
Environmental performance	Cold	-40 ± 2 for 500h				-40 ± 2 for 96h		-30 ± 2 for 96h				
	Dry heat	85 ± 2 for 500h				85 ± 2 for 96h		80 ± 2 for 96h				
	Damp heat	60 ± 2, 90 to 95%RH for 500h				60 ± 2, 90 to 95%RH for 96h		_____				
Soldering	Manual soldering	350 ± 5 3s max.				350 ± 10 3 ¹ s		350 max. 3s max.				
	Dip soldering	260 ± 5, 5 ± 1s		260 max. 6s max.		_____						
	Reflow soldering	Please see P.492										
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