

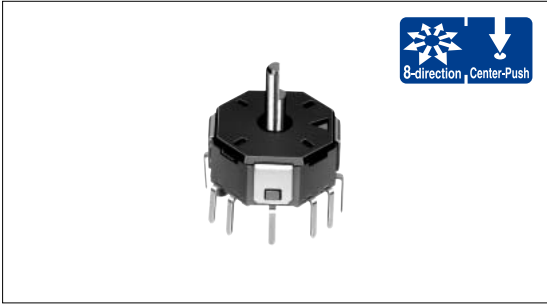
8-directional Stick Switch (with Center-push Function)

RKJXL Series



Low-profile 6.4mm height contributes to flexibility in set design.

Multi Control Devices



Typical Specifications

Items	Specifications	
Rating(max. χ Resistive load)	10mA 5V DC	
Operating angle(Lever operation)	$12 \pm 3^\circ$	
Travel (Push operation)	$0.2 \pm 0.1\text{mm}$	
Operating life	8-direction	total with 8-direction 100,000cycles
	Center-push	100,000cycles

Product Line

Maximum resolution	Operating force		Minimum order unit (pcs.)	Product No.
	Direction(mN·m)	Center-push(N)		
8-direction	10 ± 7	4.5 ± 1	800	RKJXL100401V

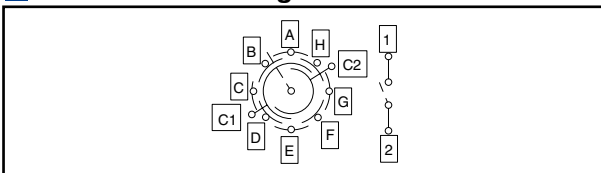
Dimensions

Unit:mm













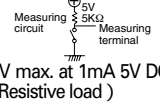
Style	PC board mounting hole dimensions
<p>Center of shaft rotation</p> <p>Operating angle</p> <p>Operational direction of the shaft.</p> <p>Produce conduction between C1 and C2, and use both as COM. (Do not use individually as COM.) In such cases, power output in the operational direction of the shaft is obtained.</p> <p>(1)-(2) conduct by push- on operation.</p>	<p>Mounting hole details viewed from mounting side</p>

Variable Resistor Type
Switch Type

Switch Circuit Diagram



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	20.5	13	11.7	6.45	7.35/7.45	
	D				12.3	6.4	7.5	
	H	10.5	5.45	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 1.2 ± 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 ^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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Multi Control Devices

Variable Resistor Type

Switch Type