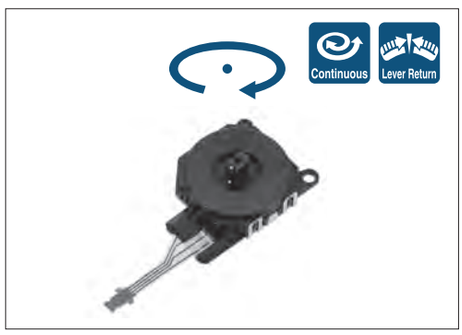
RKJXU ThumbPointer™ (Low-profile Flat Stick Controller)

Omnidirectional input device realizing a smooth operating feel



Typical Specifications

Items	Specifications
Rated power	0.025W
Maximum operating voltage	5V DC
Operating travel	Each direction $2^{+0.2}_{0}$ mm
Operating force	0.75±0.3N
Operating life	2,000,000 cycles

Product Line

Product No.	Lever return mechanism	Center-push	Total resistance (kΩ)	Resistance taper	Minimum order unit (pcs.)	
					Japan	Export
RKJXU1210006	With	Without	5	B	2,000	2,000

Packing Specifications

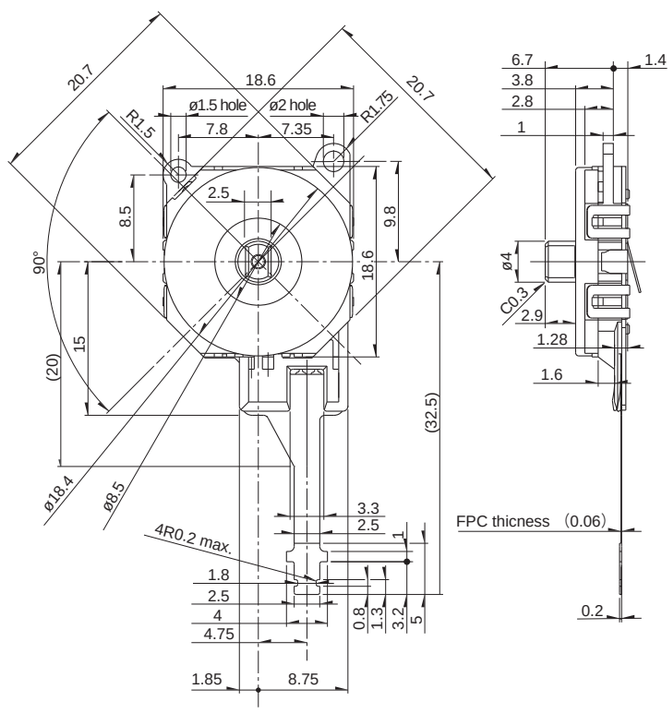
Tray

Number of packages (pcs.)		Export package measurements (mm)
1 case / Japan	1 case / export packing	
2,000	2,000	540×360×230

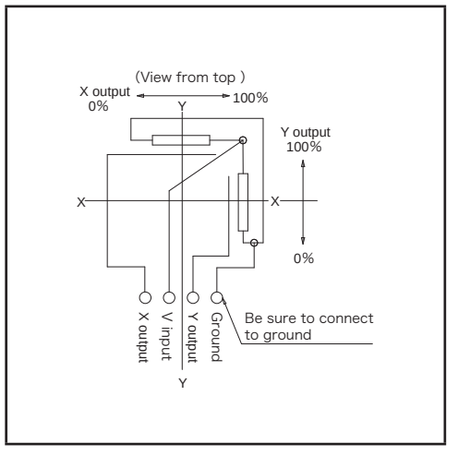
Dimensions

Unit:mm

Style



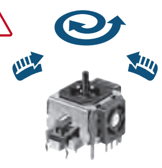
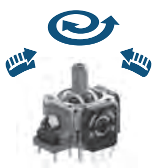
Circuit Diagram



Multi Control Devices

List of Varieties

*Products marked with a ⚠ are not recommended for new designs

Type		Potentiometer type			
Series		**RKJXK**	**RKJXV**	**RKJX2**	**RKJXU**
Photo		⚠ 		NEW 	
Dimensions (typical value) (mm)	W	20.7	17.8	13.7	18.6
	D	25.4	21.3	14.6	24.3
	H	12.9	11.2	7.8	5.2
Shaft material		Metal	Resin		
Directional resolution		Continuous			
Directional operating feeling (tactile feeling)		Without			
Lever return mechanism		With / Without	With		
Center-push switch		With / Without		With	Without
Encoder		Without			
Operating temperature range		−10℃ to +70℃		−10℃ to +50℃	−10℃ to +70℃
Operating life	Directional operation	100,000 cycles	2,000,000 cycles	2,000,000 cycles	2,000,000 cycles
	Center-push	100,000 cycles	500,000 cycles	500,000 cycles	—
Automotive use		—	—	—	—
Life cycle (availability)		2	2	2	2
Electrical performance	Insulation resistance	100MΩ min. 250V DC			—
	Voltage proof	250V AC for 1 minute			—
	Slider noise	300mV p-p max. by JIS method		300mV p-p max.	300mV p-p max. by JIS method
Mechanical performance	Directional operating force	8mN·m max. Without Lever return mechanism 6±4mN·m With Lever return mechanism	14±10mN·m	7^{+5}_{-3} mN·m	0.75±0.3N
	Push operating force	5.2±2.6N	7.4±3N	6±2.5N	—
	Lever return precision	±5°			±0.1mm
	Actuator strength: Push / pull directions	50N min. (Push/Pull)	98N min. (Push), 50N min. (Pull)		100N min. (Push), 30N min. (Pull)
	Actuator strength: Operating direction	0.3N·m	—		50N
Environmental performance	Cold	−30℃ 96h			
	Dry heat	80℃ 96h			
	Damp heat	60℃, 90 to 95%RH 96h			
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Multi Control Devices
Variable Resistor Type
Switch Type

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