Multi Control Devices

8-way Stick Switch (Center-Push Function)

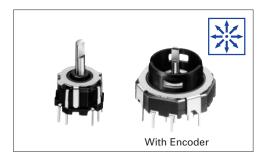
RKJXM Series





ar Use RoHS applicab

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



Features

- Excellent operationality is achieved as tactile feeling is attached to an 8-directional stick switch.
- Provides different operating angles and force for each operating direction (four "+" directions and four "x" directions) for improved blind-touch operation.
- The two axis structural type allows a stick switch (inside axis) and an encoder (outside axis) to be placed into one unit in an external size of 20 mm.
- The encoder achieves a smooth rotation feeling by an original click structure.

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

Multi Control Devices

TACT Switch™

Custom-Products

Applications

- For a volume or a mode change of car audio, car navigation, and for a cursor control
- For various other level controlling applications
- For remote controllers of the above products

Typical Specifications (Inner-shaft Stick Switches)

Ite	ms	Specifications	
Rating (max.) (Res	sistive load)	10mA 5V DC	
Contact	Lever operation	10 max.	
resistance	Push operation	TΩ IIIdX.	
Operating force		A•B•C•D direction : 30±20mN•m AB•BC•CD•DA direction : 25±20mN•m	
Operating angle (lever operation)	A∙B∙C∙D direction : 10° max. AB∙BC∙CD∙DA direction : 12° max.	
Travel (Push opera	ntion)	0.3±0.2mm	
Operating life	8-direction	100,000 cycles	
Operating me	Center push	100,000 cycles	

Variable Resistor Type

Switch Type

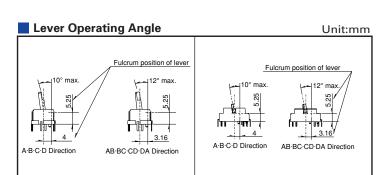
Typical Specifications (Outer-shaft Encoders)

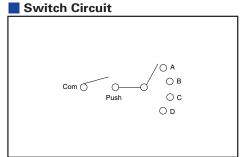
Items	Specifications		
Rating (max.) (Resistive load)	10mA 5V DC		
Detent torque	12±8mN∙m		
Operating life	15,000 cycles		

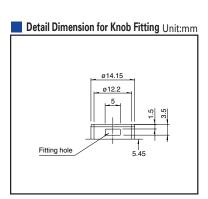
Products Line

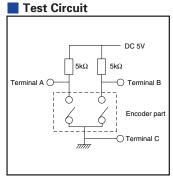
Maximum resolution			Minimum packing unit		
Shaft	Direction	Encorder	Products No.	(pcs.)	Drawing No.
1	0	_	RKJXM1015001	1,000	1
2	0	15-pulses/15-detents	RKJXM2E13001	1,000	2

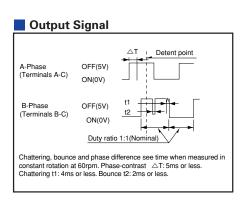
Dimensions Unit:mm PC board mounting No. Photo Style hole dimensions **RKJXM10** 2-2 4.15 ø1.1 hole 1 9-ø1 holes Operating direction of lever. **RKJXM2E** 5 2 Operating direction of lever











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CustomProducts

Variable Resistor Type Switch Type

Products Specifications

	ltems		RKJXT1F	RKJXM	RKJXL	RKJXS	SRBE	SLLB
Operating temperature range		-40°C to +85°C	-30°C to +70°C		–20°C to +70°C	-10°C to +60°C		
Rating (max	κ.) (Resis	tive load)			10mA 5V DC		1mA 5V DC	10mA 5V DC
	Output voltage				(11031311VC 10dd) term		Measuring § 5KΩ	
Electrical performance	Directional resolution		4-direction	8-direction				
	Insulation resistance		100MΩ min. 250V DC				100MΩ min. 100V DC	
	Voltage proof		300V AC for 1min. or 360V AC for 2sec.	300V AC for 1min.		50V AC for 1min.		100V AC for 1 min.
Mechanical characteris-tics	Direction application 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		0.65±0.3N
	Push appl	ication force	5±2N	3±1.5N	4.5±1N	2.5±1.5N	3.5±1.5N	2±1N
	Encoders Detent torque		15±8mN∙m	12±8mN∙m			3±2mN∙m	
	Robustness of terminal 5		5N for 1min.				3N for 1 min.	
	Robustness	Pushing direction	100N	30N		50N		
	of actuator	Operating direction	0.4N.m			20N		10N
	Manual soldering		350±5°C 3s max.			350±10℃ 3⁺∂s	350±5°C 3s max.	
	Solder heat resistance	Dip soldering	260±5℃, 5±1s					
	Tosiotarioo	Reflow soldering					Please see P.305	
	Vib	ration	8.3±1 to 200±4 to 8.3±1Hz, 4.4G fixed (for 15 minutes) logol, 3 angles each 2 hours 4.4G fixed (for 15 minutes/1 cycle), 3 a					
	Operating life	Directions	50,000	100,000 cycles		500,000 cycles		
Endurance		Center detent	50,000 cycles				100,000 cycles	
		Encorder	15,000	cycles			100,000 cycles	
		ting life out load				100.00		100,000
	Operating life with load (Load : As rating)							cycles
Environ- mental test	Cold		-40±2℃ for 500±10h	-40±2℃ for 500h		-40±2°C for 96h		–20±2℃ for 96h
	Long-term heat resistance		85±2℃ for 500±10h	85±2℃ for 500h		85±2℃ for 96h		
	Moisture resistance		60±2°C, 90 to 95%RH for 500±10h	60±2℃, 90 to 95%RH for 500h		60±2°C, 90 to 95%RH for 96h		

Note

Shall be in accordance with individual specifications.

Push

Slide

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Dual-in-line
Package Type

Multi Control
Devices

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CustomProducts

Variable
Resistor Type

Switch
Type

Detector