RKJXW 8-directional Stick Switch (with Encoder / Center-push Function)

Firm operating feel and high robustness ideal for integrated control of automotive equipment







■ Typical Specifications (Stick Switch)

Ite	ms	Specification		
Rating(max.)(Res	sistive load)	10mA 5V DC		
Contact resistance	8-direction Center-push	1kΩ max.		
Travel	8-direction	2±0.8mm		
	Center-push	1.4±0.5mm		
Operating life	8-direction	Total with 8-direction 30,000 cycles		
	Center-push	30,000 cycles		

■ Typical Specifications (Encoder)

Items	Specification		
Rating(max.) (Resistive load)	10mA 5V DC		
Operating life	30,000 cycles		

Product Line

Product No.	Stick Switch			Encoders			Minimum order unit	
	Maximum resolution	Operating force		Lilcodeis			(pcs.)	
		Direction	Center Push	Detent torque	Number of detent	Number of pulse	Japan	Export
RKJXW1014002	8	2.5±1.5N	3±1.5N	30±20mN·m	30	15	100	100

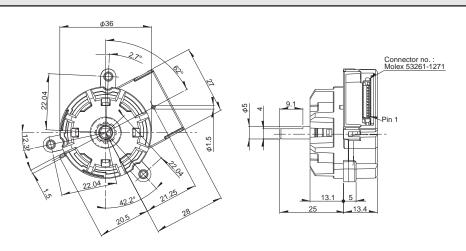
Packing Specifications

Tray

Number of page	Export package	
1 case / Japan	1 case / export packing	measurements (mm)
100	100	360×270×230

Dimensions

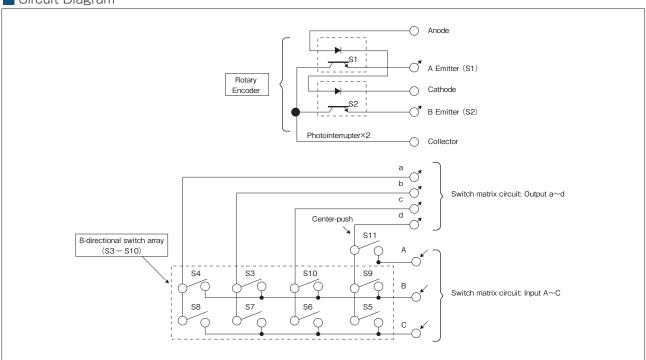
Style



8-directional Stick Switch/Specifications

Circuit Diagram/Output Relation Chart/Pin Configuration/8 Direction Codes

Circuit Diagram



Output Relation Chart

			Switch No.							
		S3	S4	S5	S6	S7	S8	S9	S10	
Direction	А	ON	ON	(ON)					(ON)	
	В	(ON)	ON	ON	(ON)					
	С		(ON)	ON	ON	(ON)				
	D			(ON)	ON	ON	(ON)			
	Е				(ON)	ON	ON	(ON)		
	F					(ON)	ON	ON	(ON)	
	G	(ON)					(ON)	ON	ON	
	Н	ON	(ON)					(ON)	ON	

 $\ensuremath{^{\prime\prime\prime}}(ON)\ensuremath{^{\prime\prime\prime}}$ indicates that the switch is either On or Off at the time of the operation.

Discern the direction of operation when two switches are On. Ignore any additional switches which may be switched On.

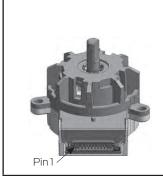
Example:

Operation in direction A 1st signal: S4 On > Standby

2nd signal: S3 On > Discern as direction A

3rd signal: S10 On > Ignore this signal (discern as direction A) 4th signal: S5 On > Ignore this signal (discern as direction A)

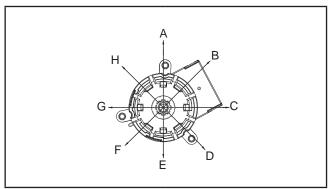
■ Pin Configuration



Pin No.

- 1 Photointerrupter Anode
- 2 Photointerrupter Cathode
- 3 Output d (S11, S9, S5)
- 4 Input A (S11)
- 5 Output a (S4, S8)
- 6 Output b (\$3, \$7)
- 7 Input B (S4, S3, S10, S9)
- 8 Input C (S8, S7, S6, S5)
- 9 Output c (S10, S6)
- 10 Photointerrupter A Emitter (S1)
- 1 1 Photointerrupter B Emitter (S2)
- 12 Photointerrupter Collector

8 Direction Codes





	Type			h type					
Ç	Series		RKJXT1F	RKJXM	RKJXW	RKJXL			
Photo			. c5.	**	类	**			
D: .		W	17	11	36	- 13			
Dimensior (mm)		D		11	48.5	10			
		Н	10.5	6.6	26.5	6.4			
Sha	ft materia	al	Metal						
	nal resol		4-direction		8-direction				
Directional (tac	operating tile feeling			With		Without			
	turn mecha	-		W	ith				
Center	-push sw	itch		With					
E	ncoder		With	Without	With	Without			
Operating :	emperatur	e range		-30℃ to +70℃					
	Directional operation		Total with 4-direction	Total with 8-direction	30,000 cycles for each direction	8 directions total: 100,000 cycles			
Operating life	Center	-push	50,000 cycles	100,000 cycles	30,000 cycles	100,000 cycles			
	Enco	oder	15,000 cycles	_	30,000 cycles	_			
Auto	motive us	se	•	• •		•			
Life cyc	e (availal	bility)	2	★ 2		* 2			
Rating (ma	x.) (Resistiv	re load)							
	Output	voltage	_	_	_	_			
Electrical	Encoder re	esolution	15pulses/360°	pulses/360° - 15pulses/360°		_			
performance	Insulation resistance		100MΩ min. 250V DC						
	Voltage proof		250V AC for 1min.		360V AC for 2s	300V AC for 1min. or 360V AC for 2s			
	Directional operating force		40±25mN·m	Direction A, B, C, D 30±20mN·m	2.5±1.5N	10±7mN·m			
				25±20mN·m		45.00			
Mechanical performance	Push operating force		5±2N	3±1	1.5N	4.5±1N			
	Encoder detent torque Terminal strength		15±8mN·m	 r 1min.	30±20mN·m —				
		Push / pull directions	100N (Push/Pull)						
	Actuator strength	Operating	0.4N·m	100N (Push), 50N (Pull) 0.3N·m	100N (Push) 50N	100N (Push), 50N (Pull) 100N			
	direction		0.4N·III						
Environmental	Cold Dry heat		-40 C 500h						
performance	Damp								
		ricat	000						
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Note

• Indicates applicability to all products in the series.