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



■ Typical Specifications (Stick Switch)

Ite	ms	RKJXW1	RKJXW2 (Inner-shaft)	
Rating(max.)(Res	sistive load)	10mA 5V DC		
Contact resistance	8-direction Center-push	- 1kΩ max.		
Travel	8-direction	2±0.8mm	3±1mm	
Ilavei	Center-push	1.4±0.5mm	1.4±0.5mm	
Operating life	8-direction	Total with 8-direction 30,000 cyc		
	Center-push	30,000 cycles	100,000 cycles	

■ Typical Specifications (Encoder)

Items	RKJXW1 RKJXW2 (Outer-shaft)		
Rating(max.) (Resistive load)	10mA 5V DC		
Operating life	30,000) cycles	

Product Line

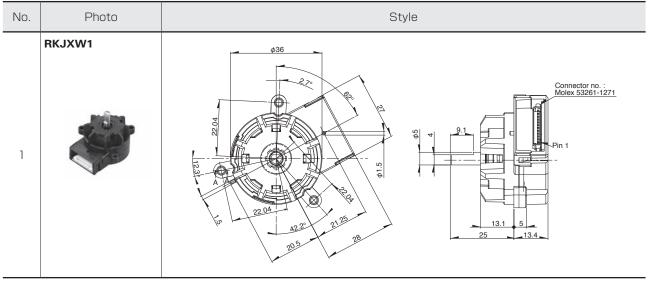
Product No.		Stick Switch			Encoders			Minimum order unit		Drowing
	Shaft	Maximum resolution	Operating force		LIICOUEIS			(pcs.)		Drawing No.
			Direction (N)	Center Push (N)	Detent torque	Number of detent	Number of pulse	Japan	Export	INU.
RKJXW1014002	1	8	2.5±1.5	3±1.5	30±20mN·m	30	15	100	100	1
RKJXW2014001	2		3.5±2	0±1.0	40±16mN·m	30	15	50	50	2

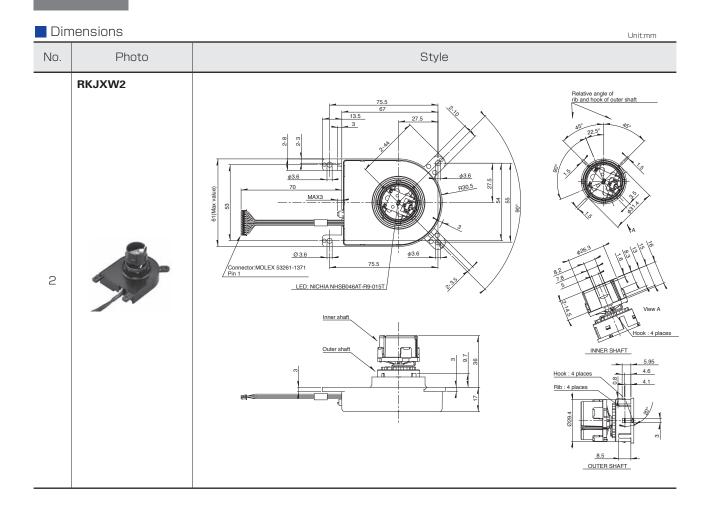
Packing Specifications

Tray

Product No.	Number of page 1 case / Japan	Export package measurements (mm)		
RKJXW1014002	100	100	360×270×230	
RKJXW2014001	50	50	420×370×225	

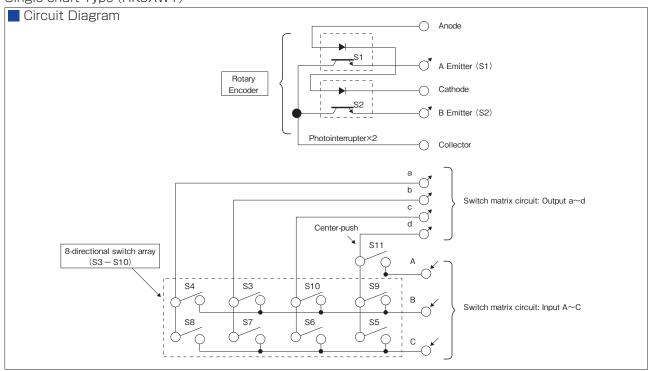
Dimensions Unit:mm





8-directional Stick Switch/Specifications

Circuit Diagram/Output Relation Chart/Pin Configuration/8 Direction Codes Single-shaft Type (RKJXW1)



Circuit Diagram/Output Relation Chart/Pin Configuration/8 Direction Codes Single-shaft Type (RKJXW1)

Output Relation Chart

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

""(ON)"" 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:

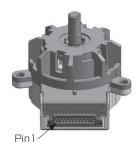
Operation in direction A

1 st signal: S4 On > Standby 2nd signal: S3 On > Discern as direction A

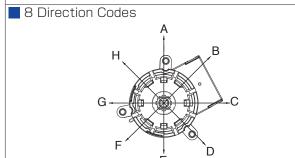
3rd signal: S10 On > Ignore this signal (discern as direction A)

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

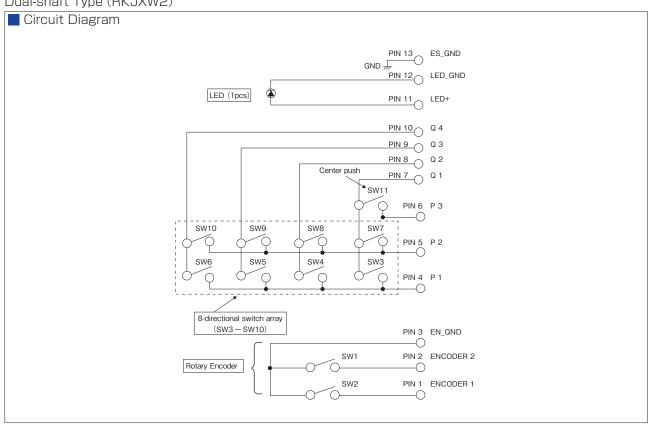
Pin Configuration



- 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 (S3, S7)
- 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



Dual-shaft Type (RKJXW2)





8-directional Stick Switch/Specifications

Output Relation Chart/Pin Configuration/8 Direction Codes Dual-shaft Type (RKJXW2)

Output Relation Chart

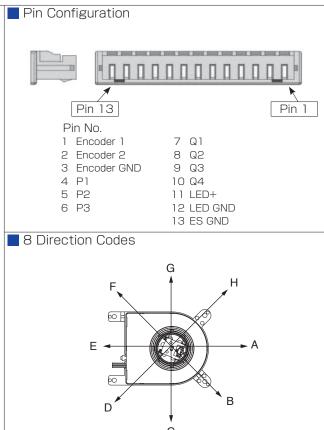
					0	- NI-				
		Switch No. SW3 SW4 SW5 SW6 SW7 SW8 SW9 SW10								
			SW4	SW5	SW6	SW7	SW8	SW9	SW10	
	Α	ON	ON	(ON)					(ON)	
	A/B	ON	ON	ON						
	В	(ON)	ON	ON	(ON)					
	B/C		ON	ON	ON					
	С		(ON)	ON	ON	(ON)				
	C/D			ON	ON	ON				
_	D			(ON)	ON	ON	(ON)			
tiol	D/E				ON	ON	ON			
Direction	Е				(ON)	ON	ON	(ON)		
	E/F					ON	ON	ON		
	F					(ON)	ON	ON	(ON)	
	F/G						ON	ON	ON	
	G	(ON)					(ON)	ON	ON	
	G/H	ON						ON	ON	
	Н	ON	(ON)					(ON)	ON	
	H/A	ON	ON						ON	

""(ON)"" 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.

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)





Туре			Switch type								
	Corioo		DV IVT4E	RK	JXM	RKJXW					
	Series		RKJXT1F	RKJXM1	RKJXM2	RKJXW1	RKJXW2				
Photo			**	*	洪	洪					
		W				36	61				
Dimensions (typical value			17	11	19.5	48.5	75.5				
(mm)		Н	10.5	6.6	5.45	26.5	17				
Number of	operating	shafts	Single	-shaft	Dual-shaft	Single-shaft	Dual-shaft				
Shaf	t materia	al	Me	tal	The inner shaft: Metal The outer shaft: Resin	Metal	Resin				
Direction	nal resol	ution	4-direction		8-dire	ction					
Directional (tact	operating ile feeling	_			With						
Lever ret	urn mecha	nism			With						
Center-	push sw	ritch		With							
Е	ncoder		With	Without With							
Operating t	emperatur	e range	−40°C to +85°C								
	Directional operation		total with 4-direction	total with 8-direction		30,000 cycles for each direction					
Operating life	Center-push		50,000 cycles	100,00	00 cycles	30,000 cycles 100,000 cyc					
	Encoder		15,000 cycles	- 15,000 cycles		30,000 cycles					
Autor	motive us	se	•	•	•	•	•				
Life cycl	e (availa	bility)	* 2	★ 2		* 2	* 2				
Rating (ma	x.) (Resistiv	re load)			10mA 5V DC						
	Output	voltage	_	_	_	_	_				
Electrical	Encoder re	esolution	ion 15pulses/360° —			15pulses/360°					
performance	Insulation r	esistance		100MΩ m		10MΩ min. 50V DC					
	Voltage	e proof		250V AC for 1min.		360V AC for 2s	60V AC for 2s				
	Direct	tional	40±25mN⋅m		n A, B, C, D 20mN·m	2.5±1.5N	3.5±2N				
	operating force		4012311111111	Direction AB, BC, CD, DA 25±20mN·m		Z.J±1.JIV	J.J±ZIV				
Mechanical	Push opera	iting force	5±2N	3±		.5N					
performance	Encoder det	tent torque	15±8mN·m	_	12±8mN·m	30±20mN⋅m	40±16mN·m				
	Terminal strength			5N for 1min.							
	Actuator	Push / pull directions	100N (Push/Pull)	100N (Pusi	100N (Push)						
	strength	Operating direction	0.4N·m	0.3	3N·m	50N	100N				
	Co	ıld			-40℃ 500h						
Environmental performance	Dry h	neat			85℃ 500h						
	Damp	heat		60°C, 90 to	95%RH 500h		40℃, 90 to 95%RH 500h				
	Page		455	4	:57	4	59				

Note

• Indicates applicability to all products in the series.