

## KYL-813 wireless switches input and output module---user manual



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KYL-813 wireless ON-OFF input and output module is 2-channel DI and 2-channel relay DO.

## **I. Function**

2-channel ON-OFF DI and DO transmits data timely. The 2-channel switching condition for the transmitting equipment can be transferred timely to the receiver equipment. That is once the transmitting equipment is switching on; the receiver equipment will be switching on. When the transmitting equipment is switching off, the receiver equipment will be off.

## **II、 Feature:**

- 1、 2-channel coupler isolated inputs, high reliability and stability.
- 2、 2-channel relay dry contact output, contact current is 30V 1A.
- 3、 Collocated with wireless data transmission module whose transmitting distance is 2-3km.

Working frequency 433MHz (400-470MHz);

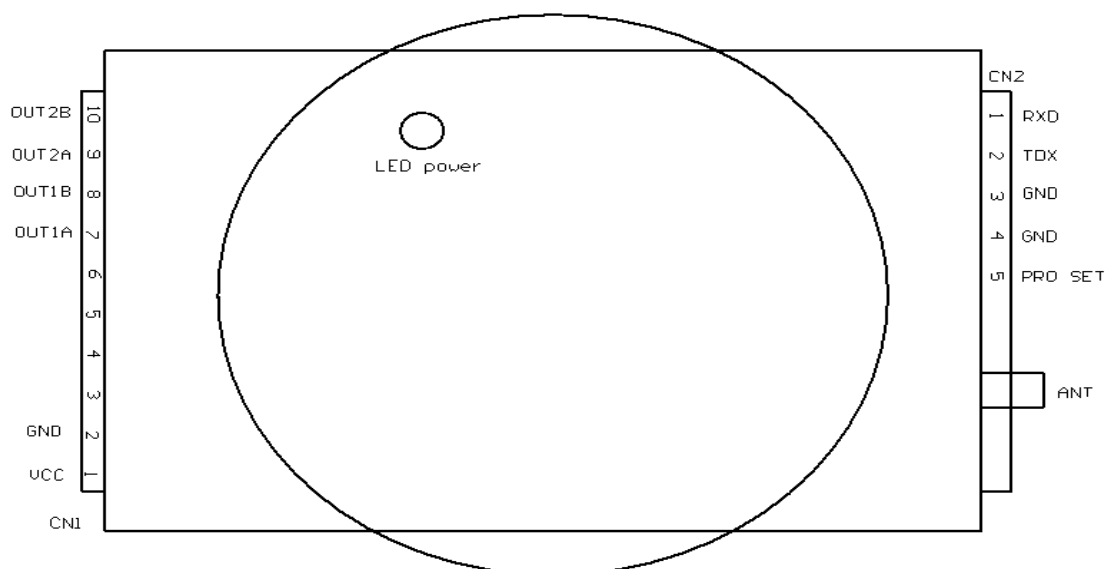
RF power: 500mW;

Receiving sensitivity: -123dBm

- 4、 Receiving current: 30mA; transmitting current: 300mA
- 5、 Power supply: DC 12V
- 6、 Features of the output contact is as following: (the parameters of the relay inside):

Rating	Nominal switching capacity (resistive load)	1 A 30 V DC 0.5 A 125 V AC		1 A 30 V DC
	Max. switching power (resistive load)	30 W, 62.5 V A		30 W
	Max. switching voltage	110 V DC, 125 V AC		110 V DC
	Max. switching current	1 A		
	Min. switching capacity ※1	10 $\mu$ A 10 mV DC		
Nominal operating power	Single side stable	140 mW (3 to 12 V DC) 200 mW (24 V DC) 300 mW (48 V DC)	280 mW (3 to 24 V DC) 400 mW (48 V DC)	200 mW
	1 coil latching	100 mW (3 to 12 V DC) 150 mW (24 V DC)	200 mW	—
	2 coil latching	200 mW (3 to 12 V DC) 300 mW (24 V DC)	400 mW	—
Expected life (min. operations)	Mechanical (at 180 cpm)		10 <sup>8</sup>	10 <sup>7</sup>
	Electrical (at 20 cpm) (1 A 30 V DC resistive)	1 A 30 V DC resistive	2 $\times$ 10 <sup>5</sup>	10 <sup>5</sup>
		0.5 A 125 V AC resistive	10 <sup>5</sup>	—

### III. Exterior sketch map



## VI. Connection Definition

Connection name	Pin No.	Definition	Remarks
CN1			
1	VCC	DC 12V (9-15V)	
2	GND	Power supply	
3	GND		
4	INT1		
5	GND		
6	INT2		
7	OUT1A	First channel relay output A contact	When the relay shutting , A and B connected
8	OUT1B	First channel relay output B contact	
9	OUT2A	Second channel relay output A contact	When the relay shutting , A and B connected
10	OUT2B	Second channel relay output B contact	
CN2			
1	RXD	Receiving data	Enter the setting mode for the module, and the function of the interface will be effective
2	TXD	Transmitting data	
3	GND	Ground of the signal	
4	GND	Ground of the signal	Programme controlling , low level. Connect the signal ground, then will enter the programme controlling mode
5	PRO SET	Programme controlling	
6	NC		
ANT	ANT	Antenna port	