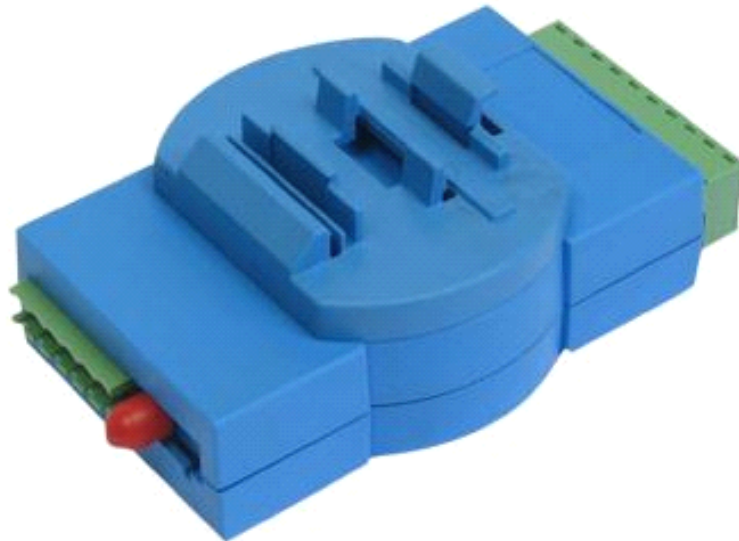


# **KYL-813 wireless switch input and output module user manual**



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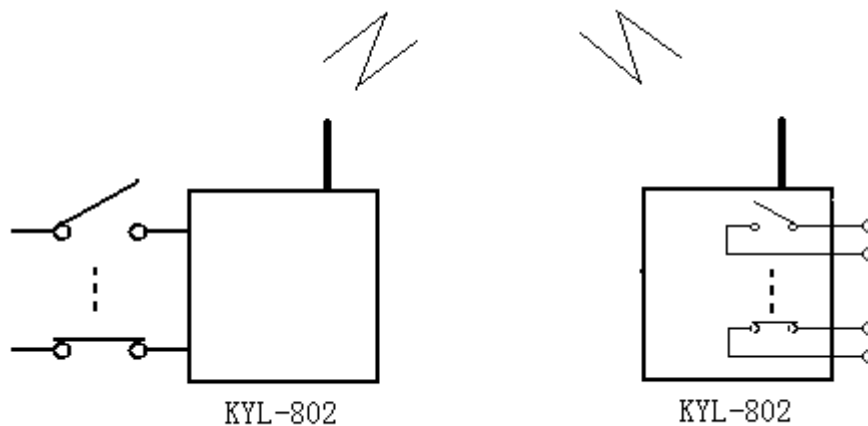
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KYL-813 wireless ON-OFF input and output module is a wireless transmission equipment with four 2-channel DI and 2-channel relay DO.

## I. Function

2 channel ON-OFF DI and DO transmitting timely. The 2 channel switching condition for the transmitting equipment can be output timely at the receiver equipment. That is the switching condition for the transmitting equipment is shut down, while the switching condition will be shut down at the receiver equipment; and the transmitting equipment is disconnect, while the receiver equipment will disconnect. The following is the schematic diagram of the ON-OFF transmission.



Schematic diagram

## 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、 collocate wireless data transmission module with 2-3km.

Working frequency 433MHz(400-470MHz);

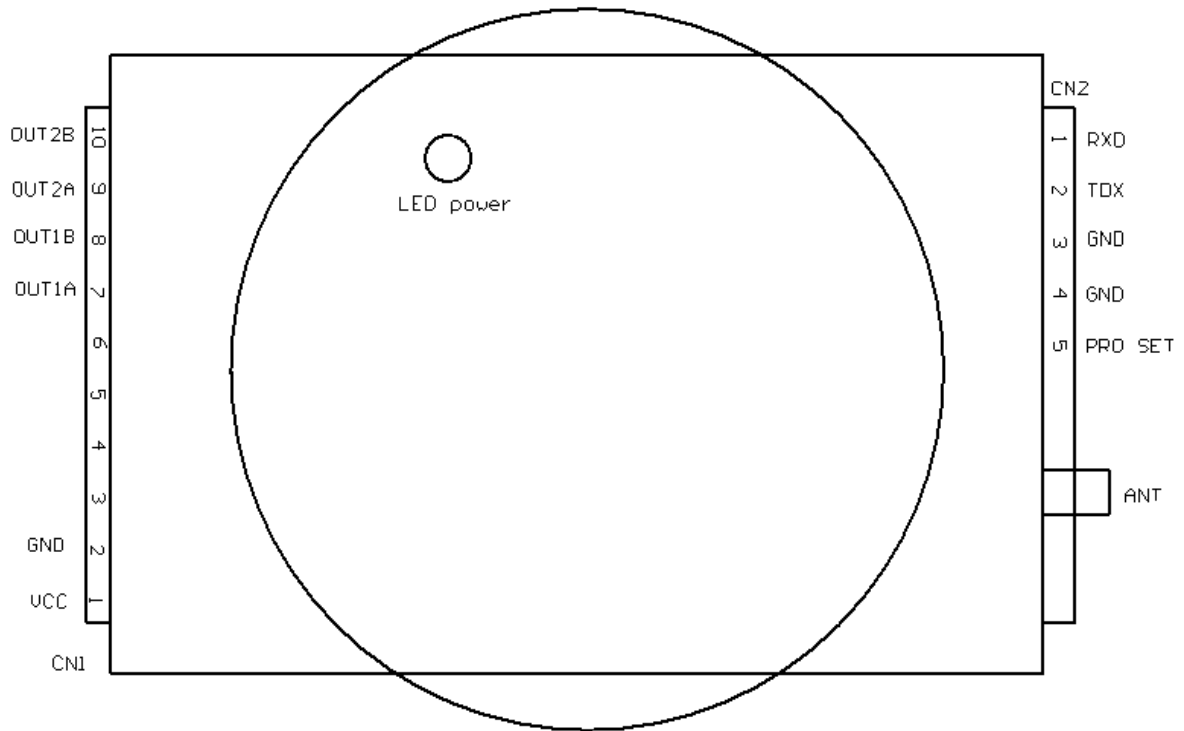
RF power: 500mW;

Receive sensitivity: -123dBm

- 4、 Receive current: 30mA; transmitting current: 300mA
- 5、 Power supply: DC 12V
- 6、 Feature of the output contact as below follows: (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	