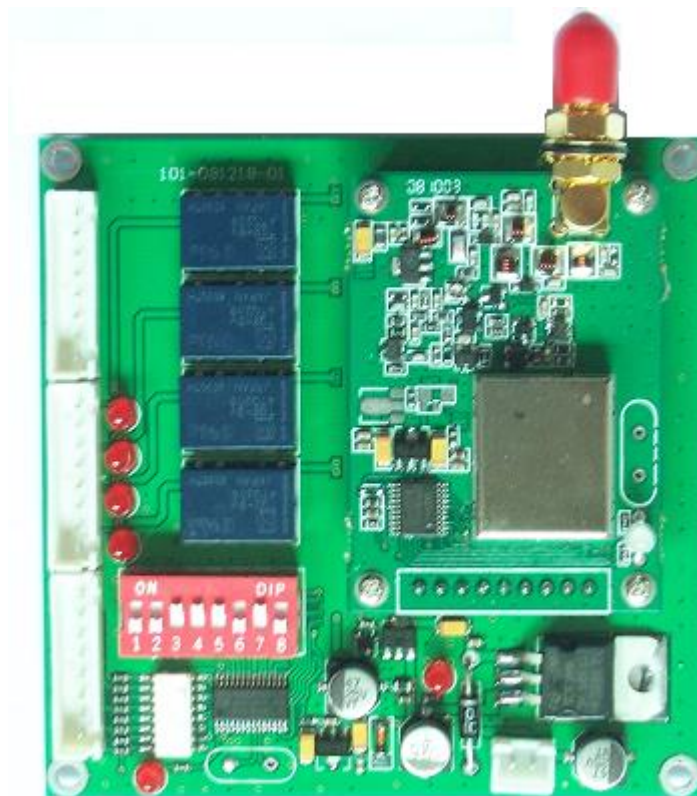


KYL-812 wireless ON-OFF input and output module user manual



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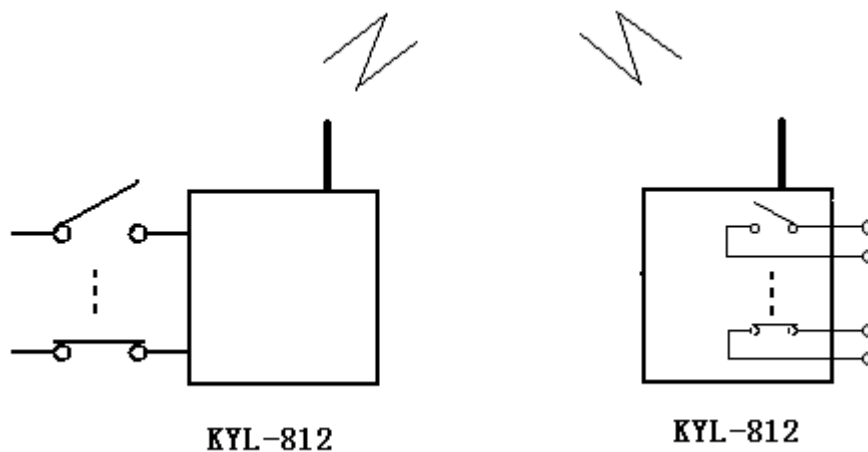
Website: <http://www.rf-data.com>

KYL-812 wireless ON-OFF input and output module is a wireless transmission equipment with four 4-channel DI and 4-channel relay DO.

I. Function

4 channel ON-OFF DI and DO transmitting timely. The 4 channel ON-OFF condition for the transmitting equipment can be output timely at the receiver equipment. That is the ON-OFF condition for the transmitting equipment is shut down, while the ON-OFF 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、 4-channel coupler isolated inputs, high reliability and stability.
- 2、 4-channel relay dry contact output, contact current is 30V 1A.
- 3、 4-channel 5V voltage output。

- 4、 collocate wireless data transmission module with 2-3km.
Working frequency 433MHz(400-470MHz);
RF power: 500mW;
Receive sensitivity: -120dBm
- 5、 Receive current: 30mA; transmitting current: 300mA
- 6、 Power supply: DC 9-15V
- 7、 Size: 82mm*82mm

III. DIP switch definition

DIP8: Working mode choosing:

ON—send the inputting conditions. The module will send the inputting conditions of the 4-channel ON-OFF

OFF—send timely every 1s or 2s; principal equipment will send the 4-channel input condition to the subordinate equipment (non-realtime transmission)

DIP7: Principal and subordinate mode choosing under the timing mode:

ON—subordinate equipment, OFF—principal equipment

















DIP6: Sending interval choosing under the timing mode:

ON—slow(2s one time), OFF—fast(1s one time)

DIP5: No definition

DIP1-4: Channels choosing (max 16 channels)

The following is the channel correspondence table for DIP switch 1-16:

DIP NO.	Channel No.	DIP NO.	Channel No.	DIP NO.	Channel No.	DIP NO.	Channel No.
	1		5		9		13
	2		6		10		14
	3		7		11		15
	4		8		12		16

Note:

- * Users generally use the inputting change sending mode, DIP7-ON;
- * To avoid more than two remote control systems working at the same time in one remote control range, the module for different system should choose different channel (working frequency);
- * Under the timing mode, it should be one subordinate equipment, and one principal equipment;
- * It should be effect by re-power on the module after changing the DIP position.

VI. Connection Definition

Connection name	Pin No.	Definition	Remarks
COM1	1	GND	Grounding of power supply DC: 9-15V
	2	VCC	
COM2	1	IN1	First group ON-OFF input
	2	GND	
	3	IN2	Second group ON-OFF input
	4	GND	
	5	IN3	Third group ON-OFF input
	6	GND	
	7	IN4	Fourth group ON-OFF input
	8	GND	
COM3	1	GND	First channel voltage controlling output (5V)
	2	LED1	
	3	GND	Second channel voltage controlling output (5V)
	4	LED2	
	5	GND	Third channel voltage controlling output (5V)
	6	LED3	
	7	GND	Fourth channel voltage controlling output (5V)
	8	LED4	
COM4	1	OUT1	First channel relay dry contact output
	2		
	3	OUT2	Second channel relay dry contact output
	4		
	5	OUT3	Third channel relay dry contact output
	6		
	7	OUT4	Fourth channel relay dry contact output
	8		

V: Using method

1、 First according to your using requirement, setting the DIP switch and connecting the power(12V), the switch input and the correspondence switch output by following the above instruction.

2、 Turn on the power

3、 It is the contact sending mode and the working channel is No.1 default.

IV. Exterior sketch map

