
RM1HLE 1CH Isolated Relay Module

The two-way isolated 1-way relay control module can select the high level or low level to control the relay pull-in according to the user's needs. The module adopts genuine high-quality power relay, ultra-small package optocoupler, high-power high-voltage triode, red and blue signal indicator, double-sided PCB board, comprehensive consideration of layout, stable performance, and can be widely used in various power control applications.



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- Module description

1. The module uses genuine high-quality relay, the maximum load of the normally open interface: AC 250V/10A, DC 30V/10A;
2. Using ultra-small two-way isolated optocoupler, strong anti-interference ability, stable performance; trigger current only needs 3mA;
3. The module working voltage is 5V, 12V, 24V to choose from; another 1, 2, 4, 8 modules are available;
4. The user can choose the control level of the relay, it can be high level pull-in, or low-level pull-in; the module contains current-limiting resistor, you can directly use the positive and negative control of the power supply, you can also use the I of the single-chip microcomputer /O port control;
5. Fault-tolerant design, even if the control line is broken, the relay will not move;
6. Power indicator (red), 1 relay status indicator (blue)
7. The interface design is user-friendly, all interfaces can be directly connected through the terminal block, very convenient

- Module interface

Module control terminal: 4-wire interface, all interfaces have terminal blocks for user wiring

1. DC+: external DC power supply negative (5V, 12V and 24V modules are available)

2. DC-: external DC power supply negative

3. VREF: optical isolation control terminal reference ground,

If high level control is used: this signal should be connected to the negative terminal of the user control board power supply.

If low level control is used: this signal should be connected to the positive side of the user control board power supply.

4. CH1: relay control interface,

If VREF is connected to the negative pole of the power supply: this port is high (relative to VREF) and the corresponding relay is connected.

If VREF is connected to the positive power supply: this port is low (relative to VREF) when the corresponding relay is connected

Note: The isolated relay module is designed to adapt to the harsh electromagnetic environment or high signal requirements. If you want to achieve complete isolation, the power of the user control

board (that is, the reference power supply connected to VERF) and the power supply of the relay module. (DC+/DC-) should be separated. If the two power supplies are common, it is not completely isolated. At this time, users can choose our more economical standard relay module.

Relay output: 3-wire interface, all interfaces have terminal blocks for easy wiring

1. NO: The relay normally open interface, the relay is suspended before the suction, and the short is connected with COM after the suction.
2. COM: relay common interface
3. NC: The relay normally closes the interface, and the relay is shorted to COM before the suction is closed.