
keyestudio WiKi

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KEYESTUDIO KS0057 BOARDS

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1. INTRODUCTION

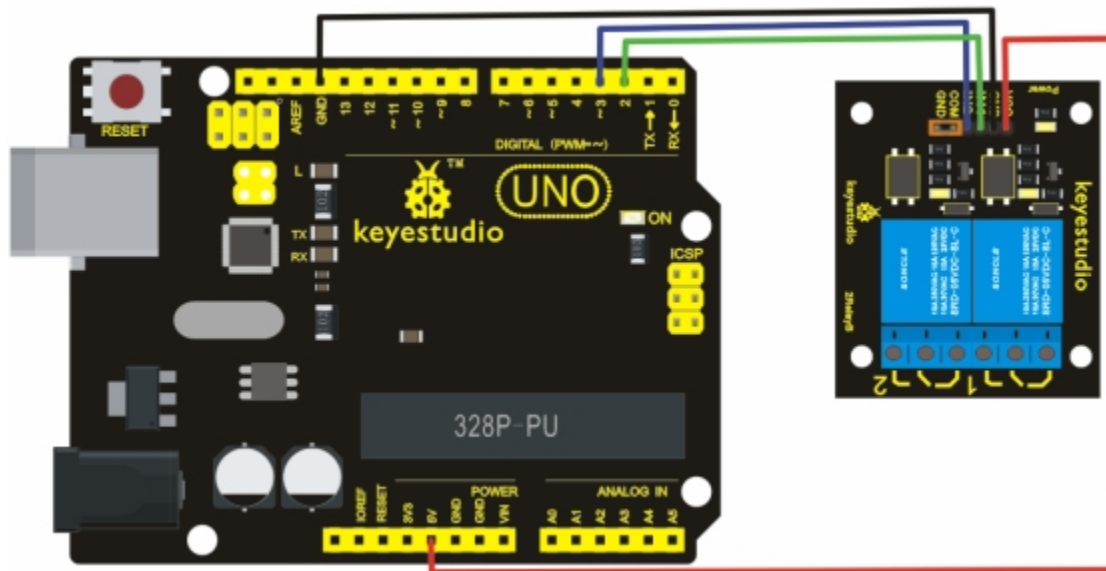
Arduino Relay Shield employs high quality SONGLE relay with two-channel input and output. It can be connected to 250V/10A AC element or 24V/10A DC element to the maximum, therefore, it can be used to control lights, motors and etc.

It is active at LOW level. The modularized design makes it easy to connect to Arduino expansion board. The output state of the relay is shown by a LED for the convenience of actual application.

2. SPECIFICATION

- Control signal: TTL voltage
- Active at High level
- Rated load :
 - 10A 250VAC
 - 10A 125VAC
 - 10A 30DC
 - 10A 28VDC
- Rated Through-current: 10A(NO) 5A(NC)
- Max Switching Voltage: 250VAC 30VDC
- Contact actuation time: 10ms
- **Definition of module pins:**
 - Pin 1- Pin 2—Controlling end
 - Power supply (VCC)
 - Ground (GND)

3. CONNECTION DIAGRAM



4. SAMPLE CODE

Download code : [Code](#)

```
int BASE = 2 ; // I/O pin connected to the first relay
int NUM = 2;  //total number of all relays

void setup()
{
    for (int i = BASE; i < BASE + NUM; i ++)
    {
        pinMode(i, OUTPUT); //set digital I/O pin as output
    }
}

void loop()
{
    for (int i = BASE; i < BASE + NUM; i ++)
    {
        digitalWrite(i, LOW); //set digital I/O pin as 'low', i.e. turning off the
↪relay gradually
        delay(200); //delay
    }
    for (int i = BASE; i < BASE + NUM; i ++)
    {
        digitalWrite(i, HIGH); // set digital I/O pin as 'HIGH' i.e. turning on
↪the relay gradually
        delay(200); //delay
    }
}
```