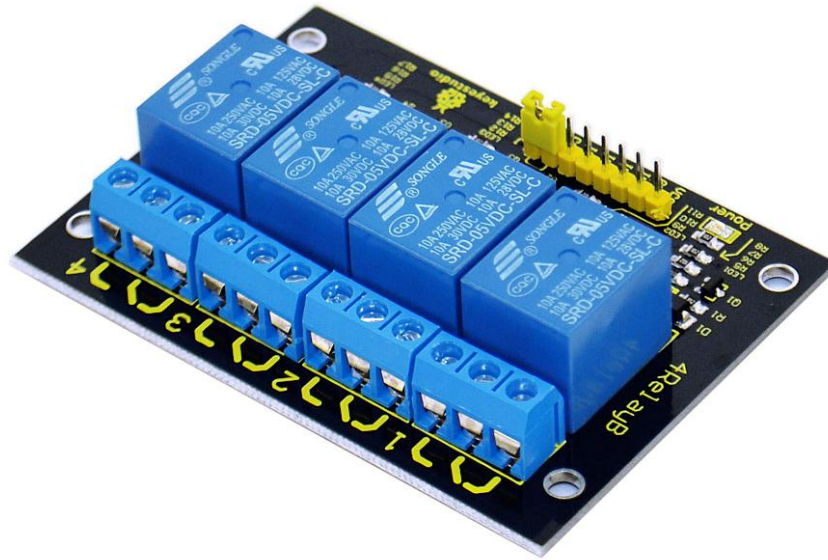


keyestudio 4-channel Relay Module



Introduction

keyestudio Relay Shield employs high quality relay with four channels 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, etc.

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.

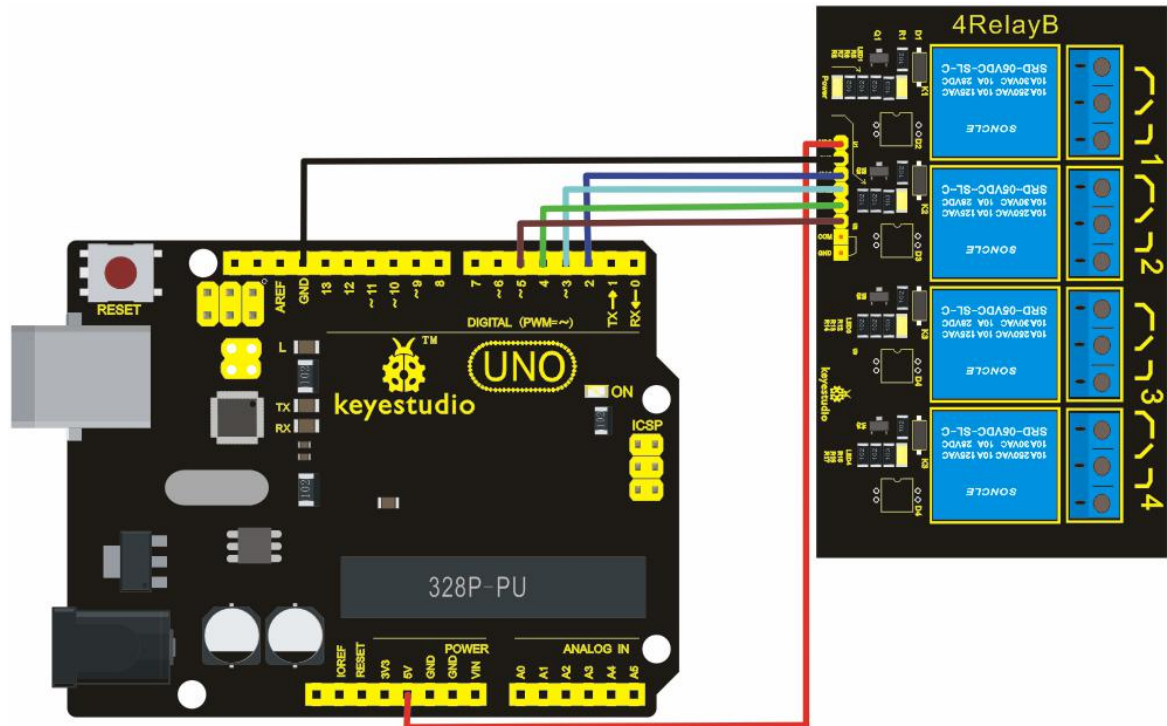
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Specification

- Control signal: TTL voltage
- Active at HIGH level
- Rated load:
 - 10A 250VAC
 - 10A 125VAC
 - 10A 30VDC
 - 10A 28VDC
- Rated Through-current: 10A(NO) 5A(NC)
- Max Switching Voltage: 250VAC 30VDC
- Contact actuation time: < 10ms
- Definition of module pins:
 - i) Pin 1- Pin 4----Controlling end
 - ii) Power supply (VCC)
 - iii) Ground (GND)

Connection Diagram

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Sample Code

```
*****

int BASE = 2 ; // I/O pin connected to the first relay

int NUM = 4;   //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

  }

}
```

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```
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

  }

}

*****
```

Resource:

<https://fs.keyestudio.com/KS0058>