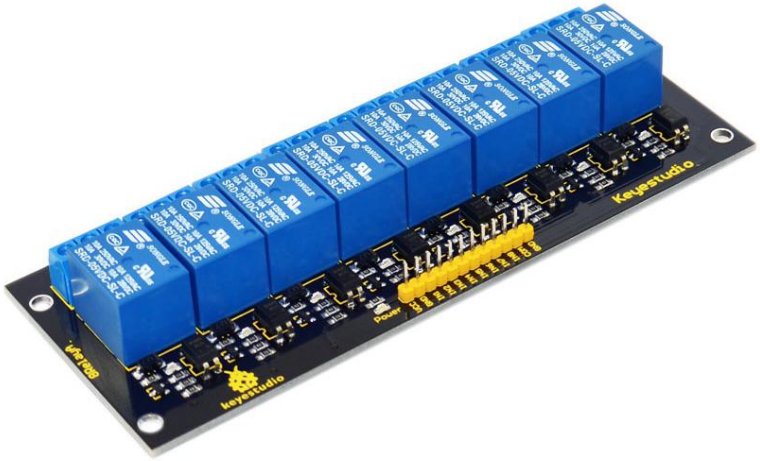
8-channel 5V Relay Module



Introduction

Arduino Relay Shield employs high quality relay with eight channels input and eight channels 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 luminous diode for the convenience of actual application.

Specification

- Control signal: TTL voltage
- Active at HIGH level
- Rated load:

  10A 250VAC

  10A 125VAC

  10A 30DC

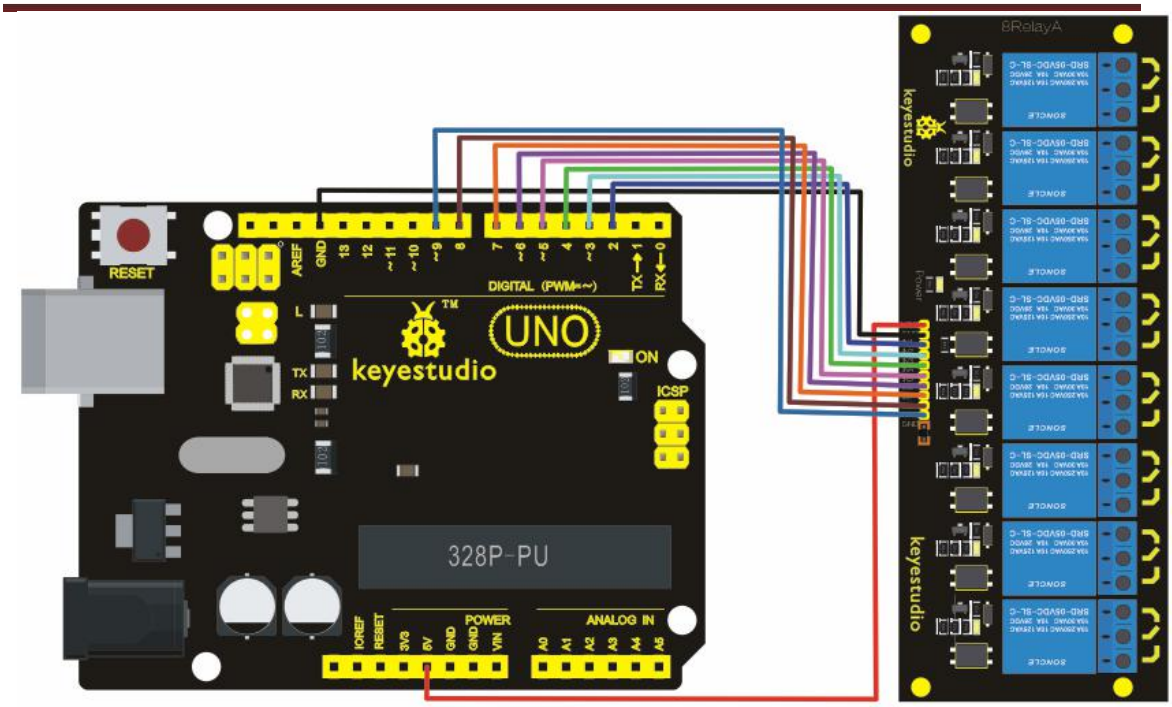
  10A 28VDC
- Rated Through-current: 10A(NO) 5A(NC)
- Max Switching Voltage: 250VAC 30VDC
- Contact actuation time: < 10ms
- Definition of module pins:

  i) Pin 1 -Pin 8----Controlling end

  ii) Power supply (VCC)

  iii) Ground (GND)

Connection Diagram



Sample Code

```
**********************************************
int BASE = 2 ;    // I/O pin connected by the first relay
int NUM = 8;      //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 ‘low’，  i.e.
turning on the relay gradually
  delay(200);              //delay
    }
}
**********************************************
```