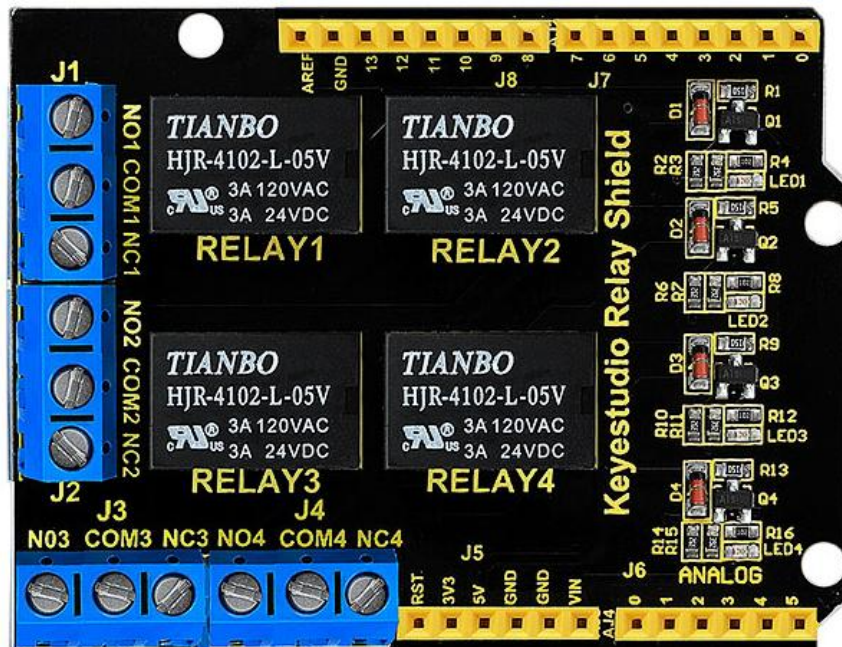


# keystudio

## Keystudio 4-channel Relay Shield



### Introduction

Keystudio 4-channel relay shield will integrate 4-channel 5V relay module, which is fully compatible with keystudio UNO R3 control board. It can work through stacking shield on the keystudio UNO R3 control board, which is very easy and convenient. The 4-channel relay of shield is for high level effectively. And 4-channel relay control port should respectively connect with the digital port 4, 5, 6, 7 which is on the keystudio UNO R3 control board. We only need to control the high and low level outputs of digital port 4, 5, 6, 7 on the 4-channel relay, which can achieve to control the relay switch.

### Performance Parameters

Working style: high level is effective  
Contact capacity: AC120V / 3A  
DC24V/3A

### Codes

```
int BASE = 4 ; //The first relay is connected to the I / O port
int NUM = 4; //Total number of relays
```

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---

```
void setup()
{
  for (int i = BASE; i < BASE + NUM; i ++)
  {
    pinMode(i, OUTPUT);    //Set the number I/O port to outputs
  }
}

void loop()
{
  for (int i = BASE; i < BASE + NUM; i ++)
  {
    digitalWrite(i, LOW);    //Set the number I/O port outputs to "low", that is, gradually
    turn off the relay.
    delay(200);              //delay 0.2S
  }
  for (int i = BASE; i < BASE + NUM; i ++)
  {
    digitalWrite(i, HIGH);   //Set the number I/O port outputs to "high", that is, gradually
    open relay.
    delay(200);              //delay 0.2S
  }
}
```

## Result

Stacking the keyestudio 4-channel relay shield on the keyestudio UNO R3 control board, burning the program, after connecting the electricity, the 4-channel relay first connected, and then disconnect one after another, cycle alternately.