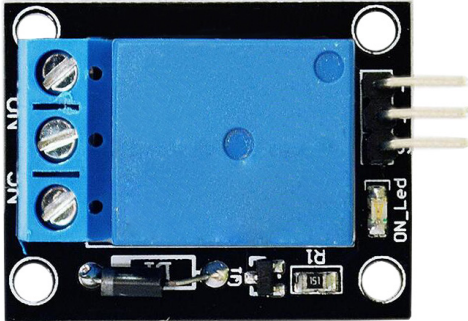


Single Circuit 5V Relay Module for Arduino and Raspberry Pi

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Description

A relay is an automatic control device where the input quantity (electricity, magnetism, sound, light, heat) reaches a certain value, and the output quantity will change in a jumping manner. In life, we often need to use weak electricity to control strong electricity, that is, the problem of small current to control high current, such as the use of Arduino controller to control high-power appliances such as fans.

For beginners, in order to be safe, we will not use high-power electrical appliances in this experiment. Here we will use small LEDs or small LED lights to complete the demonstration experiment.

Features

- New 5V relay module
- Can be used as a micro-controller development board module, can be used as home appliance control
- TTL control signal
- Control DC or AC signal, can control 220V AC load.
- There is a normally open and a normally closed contact
- Power indicator
- There is a control indicator light, the suction is bright, the disconnection is not bright
- Transistor drive adds a relay coil to control the high impedance of the foot.
- The control pin has a pull-down circuit to prevent the floating relay from malfunctioning

Electrical parameters of Relay

10A 250V AC 10A 125V AC
10A 30V DC 10A 28V DC

Instruction

The relay is a digital signal module. It uses the digital signal of the relay to open and close the relay to control high-power devices. Here, you use two small LED lights as high-power devices. It uses the digital interface 8 of the Arduino controller to output high-level delay. After 1 second, the low level is output for 1 second. That is, the switch is turned off for one second and then turned on for one second.

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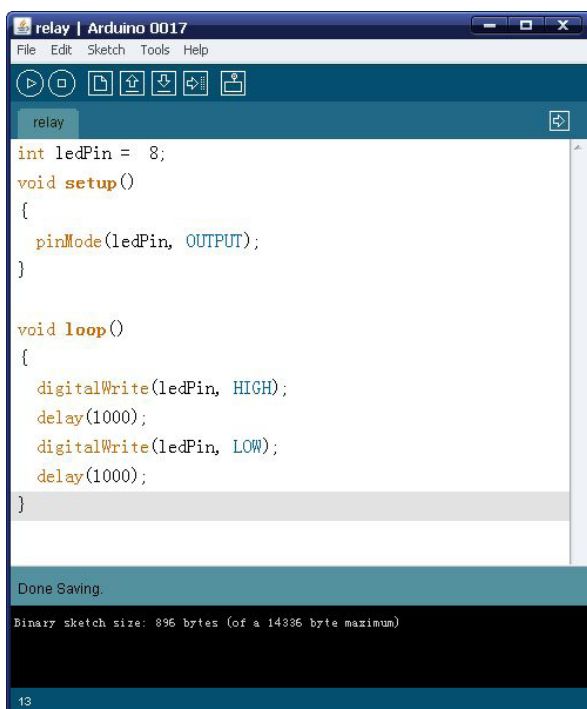
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Reference source program:

```
int RelayPin =8; // Define Digital Interface 8 Connect the base of the transistor
void setup()
{
pinMode(RelayPin, OUTPUT); //define RelayPin The interface is the output interface }
void loop()
{
digitalWrite(RelayPin, HIGH); //drive relay closed
delay(1000); //delay one second
digitalWrite(RelayPin, LOW); // Drive relay off
delay(1000); //delay one second }
```



The screenshot shows the Arduino IDE interface with a sketch named 'relay' for an Arduino 0017. The code in the sketch is as follows:

```
int ledPin = 8;
void setup()
{
  pinMode(ledPin, OUTPUT);
}

void loop()
{
  digitalWrite(ledPin, HIGH);
  delay(1000);
  digitalWrite(ledPin, LOW);
  delay(1000);
}
```

At the bottom of the IDE, a status bar indicates 'Done Saving.' and 'Binary sketch size: 896 bytes (of a 14336 byte maximum)'. The line number 13 is visible at the bottom left.

Part Number Table

Description	Part Number
5V Trigger Relay Module for Arduino and Raspberry Pi	83-17990

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