Digital Infrared motion sensor (SKU:SEN0018)

Contents

Introduction

This is a simple to use motion sensor. Power it up and wait 1-2 seconds for the sensor to get a snapshot of the still room. If anything moves after that period, the 'alarm' pin will go low.
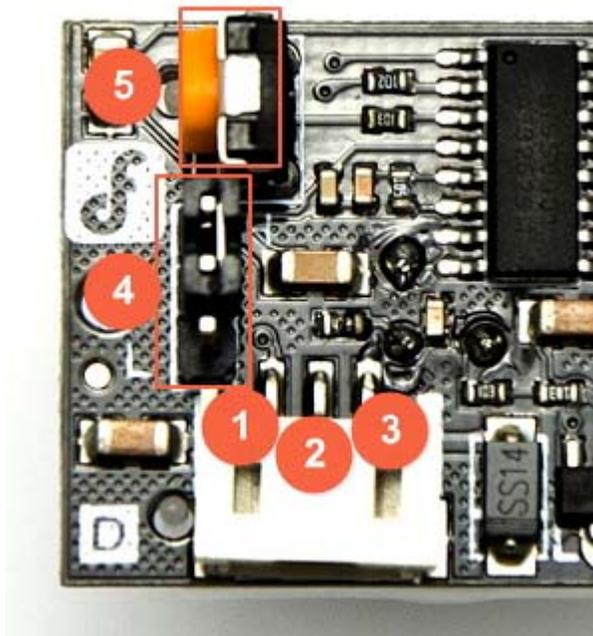
Specification

- Type: Digital
- Supply Voltage:3～5V

- Current:50μA
- Working temperature:0℃～＋70℃
- Output level(HIGH):4V
- Output level(LOW):0.4V
- Detect angle:110 Degree
- Detect distance:7 meters
- Size:28mm×36mm
- Weight:25g

Application

- Automatic door
- Infrared burglar alarm
- The highway vehicle traffic counter

Pinout

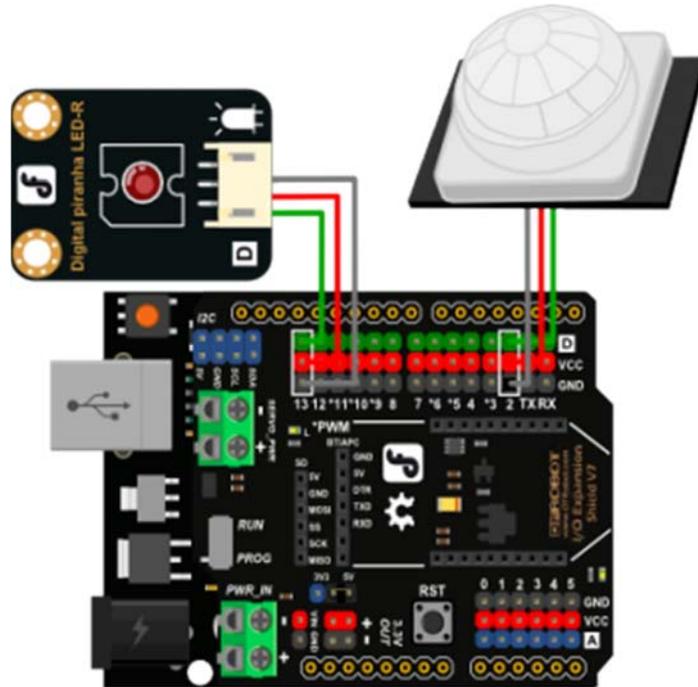| Num	Label
1	Digital Signal Out
2	VCC
3	GND
4	**Jumper Selection**: Repeatable trigger and unrepeatable trig selection. **H**: Repeatable trigger **L**: Unrepeatable trigger
5	**Potentiometer**: To adjust trigger latency from 0.5s to 50s.

Tutorial

Connection Diagram

Motion sensor Connection diagram

Sample Code

```
const int buttonPin = 2;
 const int ledPin =  13;
 void setup() {
   pinMode(ledPin, OUTPUT);
   pinMode(buttonPin, INPUT);
 }
 void loop()
 {
    if (digitalRead(buttonPin) == HIGH)
    {
      digitalWrite(ledPin, HIGH);
    }
    else {
      digitalWrite(ledPin, LOW);
```

```
        }
    }
```

Result

When sensors detect people closed, the light will be lighted.