



Digital Infrared motion sensor (SKU:SEN0018)



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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

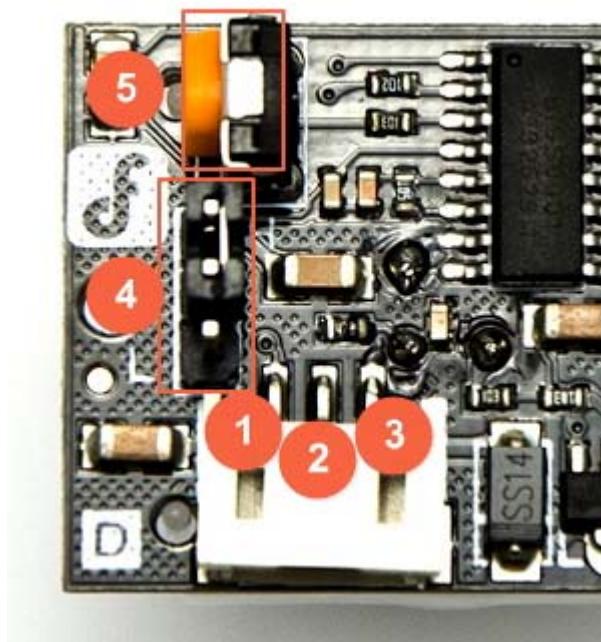
- Type: Digital
- Supply Voltage: 3~5V

- Current: 50 μ A
- Working temperature: 0°C ~ +70°C
- 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



NumLabel

1 Digital Signal Out

2 VCC

3 GND

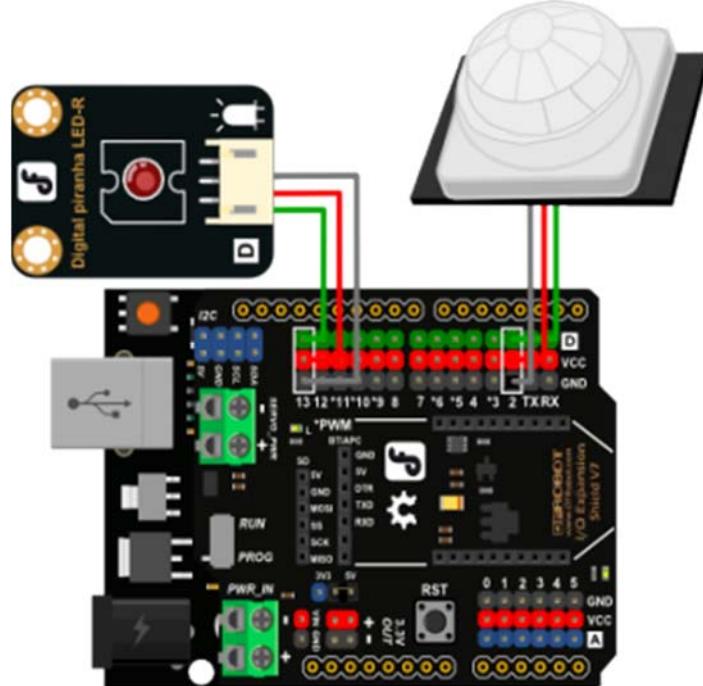
Jumper Selection: Repeatable trigger and unrepeatable trigger selection.

4
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.

For any question/advice/cool idea to share, please visit [DFRobot Forum](#).