

## Digital Infrared motion sensor (SKU:SEN0018)

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### Contents

- [1 Introduction](#)
- [2 Specification](#)
- [3 Application](#)
- [4 Pinout](#)
- [5 Tutorial](#)
  - [5.1 Connection Diagram](#)
  - [5.2 Sample Code](#)
  - [5.3 Result](#)
- [6 FAQ](#)
- [7 More](#)

### 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

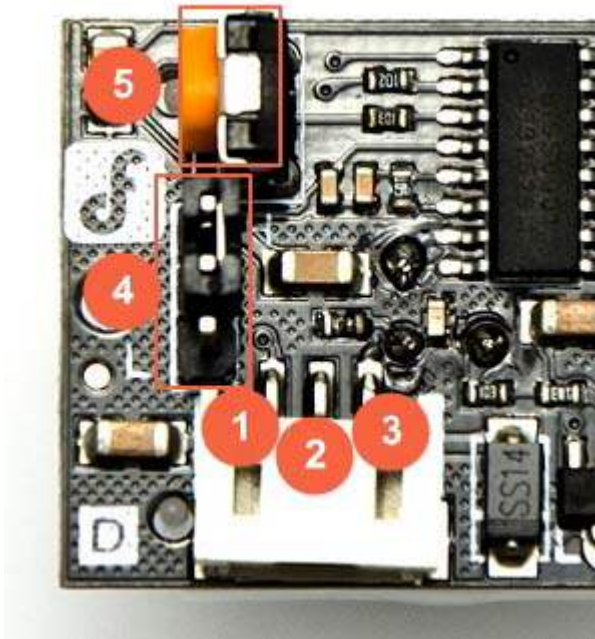
- Type: Digital
- Supply Voltage: 3~5V

- Current:50μA
- Working temperature:0°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

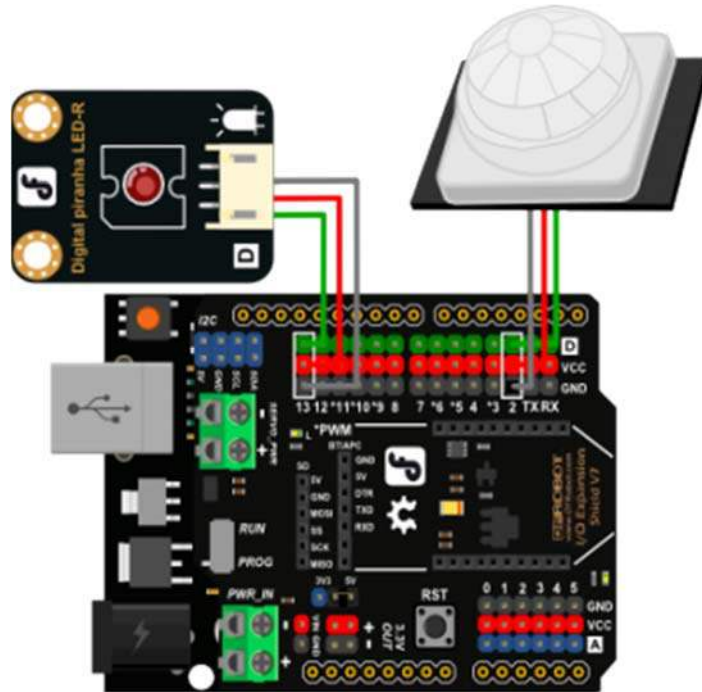
L: Unrepeatable trigger

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](#).