

# PIR Motion sensor module

## Introduction

PIR ( Passive Infrared Detection ) are used to detect motion of human movement. This version has a large lens which can support long range and wide angle. 2.54mm standard connector is easy to fix it anywhere.

**Model:** SEN116A2B



## Features

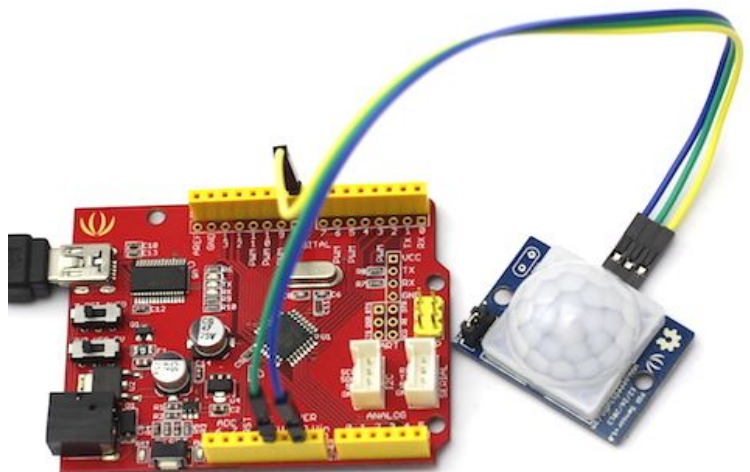
- Long range
- Wide angle
- Low consumption
- DC 3.0-5.5V power supplier

## Specifications

- Input Voltage: DC3.0-5.5V
- Current: 100uA(max)
- Detecting distance: 9m(max)
- Output signal: 0,VCC (Output high when motion detected)
- Sentry Angle: 120°
- Connector:3Pin 2.54mm pitch
- Size : L36\*W26\*H21(mm)

## Usage

The following sketch demonstrates a simple application of sensing motion. When someone moves in its detecting range, it will output High through its SIG pin and the LED will light. Otherwise, it will output LOW. Then you can use it to detect the motion of people.





# Programming

Demo code like :

```
/******  
#define PIR_MOTION_SENSOR 8 //Use pin 8 to receive the signal from the module  
#define LED 4 //LED is connected to PIN 4 of Arduino  
  
int sensorValue;  
  
void setup()  
{  
  pinMode(PIR_MOTION_SENSOR, INPUT);  
  pinMode(LED,OUTPUT);  
}  
  
void loop()  
{  
  sensorValue = digitalRead(PIR_MOTION_SENSOR);  
  if(sensorValue == HIGH) //if the sensor value is HIGH?  
  {  
    turnOnLED();  
  }  
  else  
  {  
    turnOffLED();  
  }  
}  
  
void turnOnLED()  
{  
  digitalWrite(LED,HIGH);  
}  
  
void turnOffLED()  
{  
  digitalWrite(LED,LOW);  
}
```

## Version Tracker

Revision	Picture	Descriptions	Release
v0.9b		Initial public release	Jun 08, 2009
v1.0		Change the hardware design, smaller and sensitive. Supply voltage change to 3.0-5.5V	July 30, 2014