

# HC-SR505 Mini PIR Motion Sensor

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## Introduction

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HC-SR505 Mini PIR Motion Sensor is based on infrared technology and it can automatic control by itself with high sensitivity and high reliability. Because of the minimum size and low-power operation mode, it widely used in various of automatic electronic equipment, especially battery-powered automatic products.



## Features

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- Automatic Control
- Minimum size
- Repeatable Trigger
- Wide range of operating voltage
- Low-power
- Output high signal

## Specification

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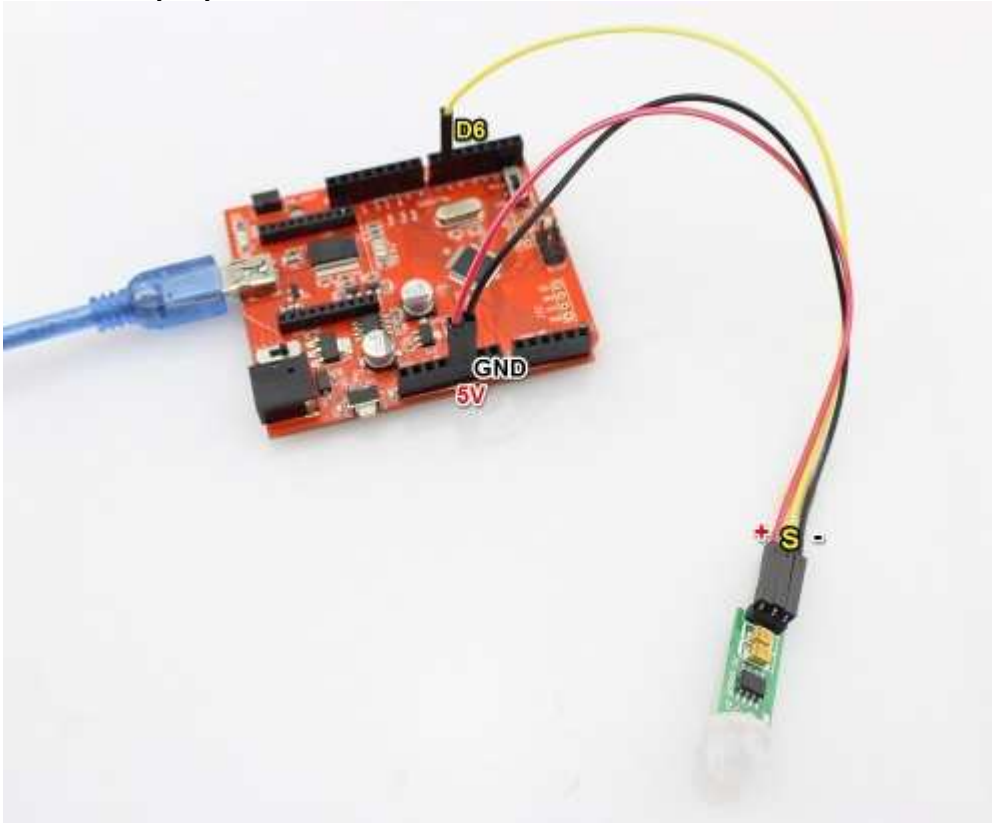
- Operating voltage range: DC4.5-20V
- Quiescent Current: <60uA
- Trigger: reusable trigger (default)
- Delay Time: The default 8S + -30%
- Board Dimensions: 10 \* 23mm
- Induction angle: <100 degrees cone angle
- Sensing distance: 3 meters
- Working temperature: -20 to +80 degrees
- Sensor Lens Dimensions: Diameter: 10mm

# Usage

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## Hardware

Connect the PIR Motion Sensor to your Arduino/Crowduino power supply pin and digital pins. You can connect the "s" terminal to any of your Arduino Pins like the "D6" as below :



## Programming

1 - Copy the following program to Arduino IDE and upload to your Arduino/Crowduino :

```
void setup() {
  Serial.begin(9600);
  pinMode(6, INPUT);
  digitalWrite(6, LOW);
}
void loop() {
  if(digitalRead(6)==HIGH) {
    Serial.println("Somebody is here.");
  }
  else {
    Serial.println("Nobody.");
  }
  delay(1000);
}
```

2 - Open the Serial monitor , and set the baud rate to 9600, you will see that When somebody is in front of the sensor , the Serial Monitor will output "Somebody is here". Or, the Serial Monitor outputs "Nobody."

