

HC-SR505 Mini PIR Motion Sensor

From Elecrow

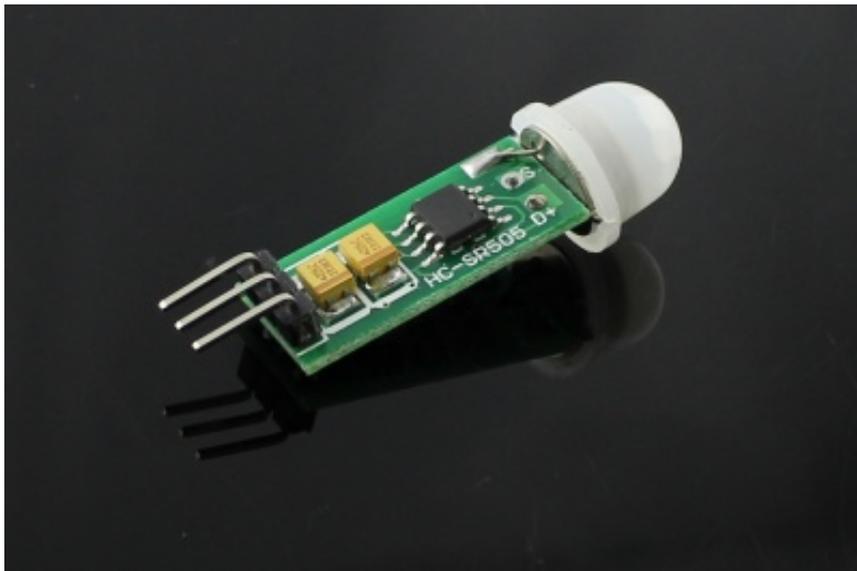
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Introduction

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.

Module:SPS50506S (<http://www.elecrow.com/hcsr505-mini-pir-motion-sensor-p-1382.html>)



Features

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

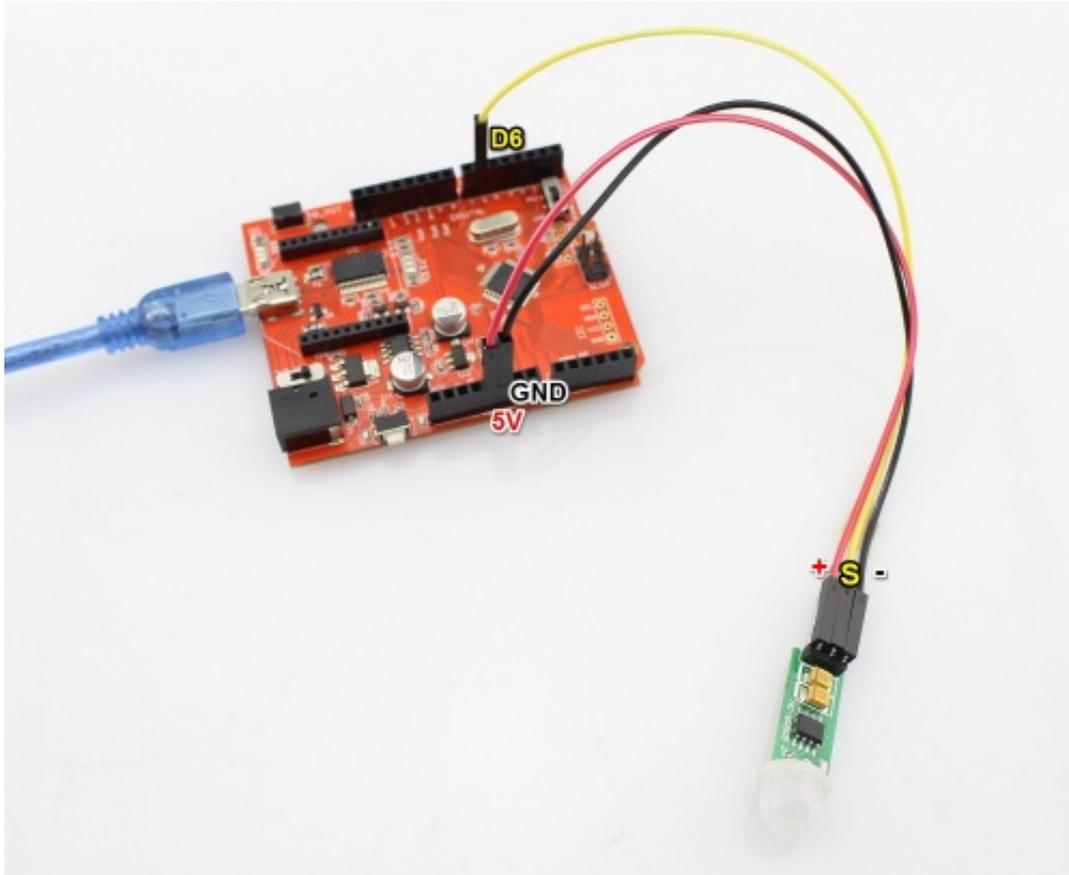
Specification

- 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

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 belows:



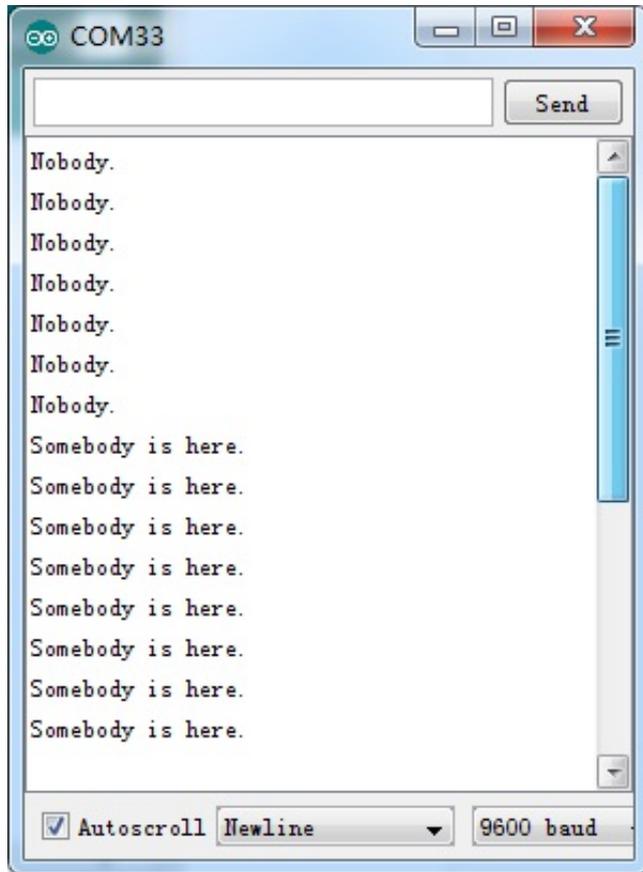
Programming

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 baudrate 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 output "Nobody."



Resource

- schematic (http://www.elecrow.com/wiki/index.php?title=File:SPS50506S_pro_2.png)