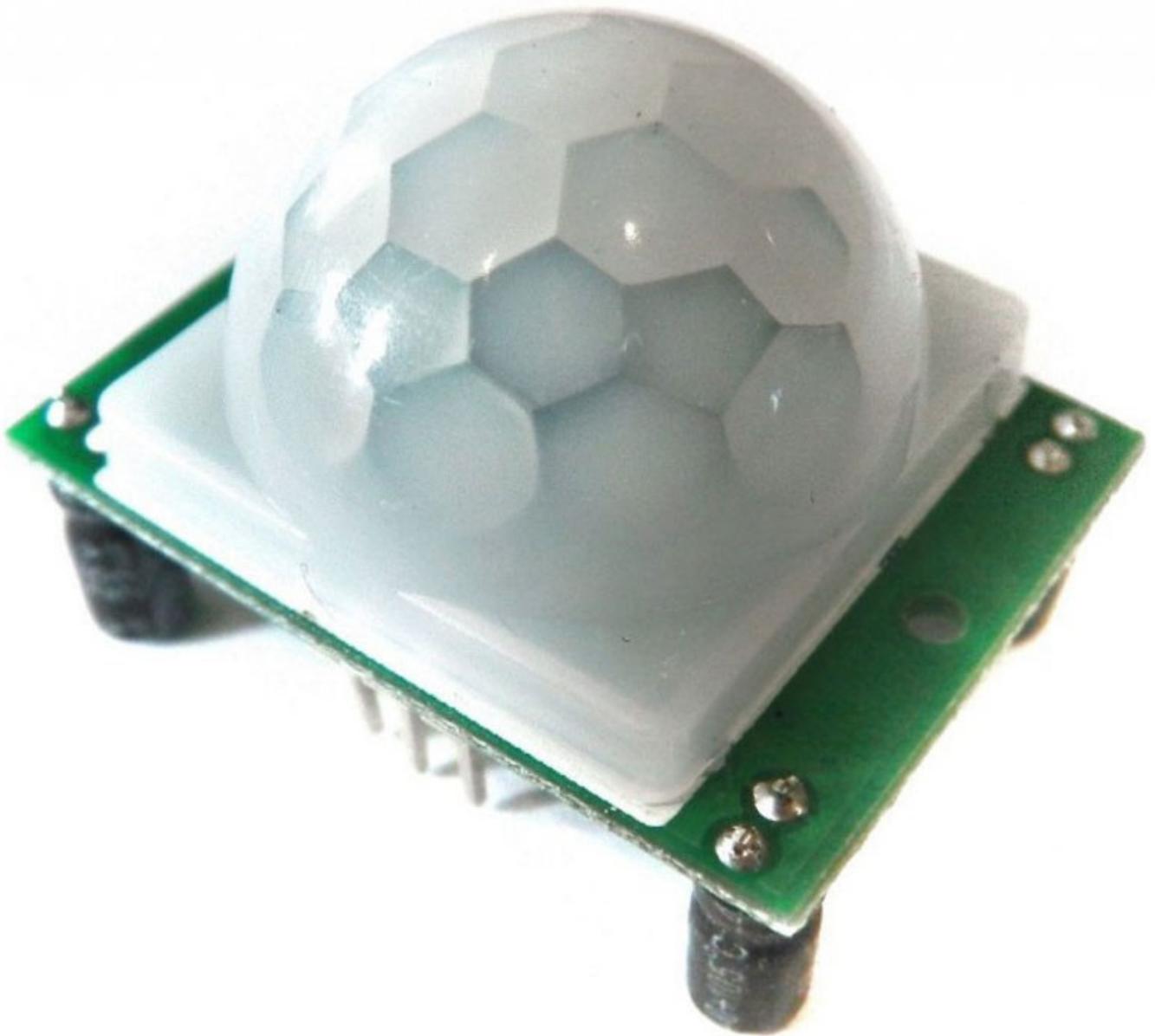


How to use a PIR sensor

What is a PIR sensor?

PIR stands for Passive Infra Red and therefore a PIR sensor can detect movement of objects that radiate IR light (like human bodies). It is very commonly used for the security systems.



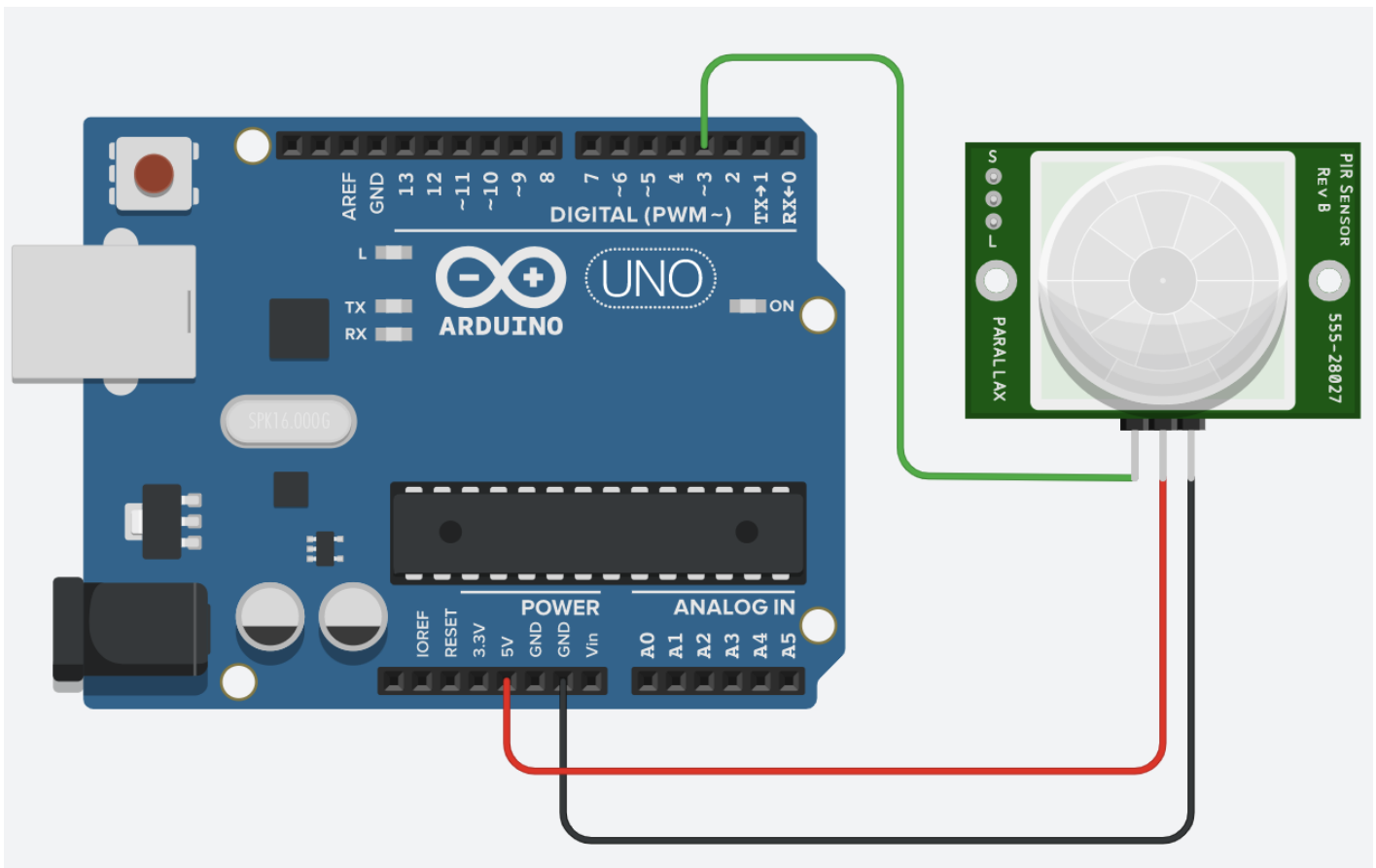
The HC-SR501's infrared imaging sensor is an efficient, inexpensive and adjustable module for detecting motion in the environment. The small size and physical design of this module allow you

to easily use it in your project.

The output of PIR motion detection sensor can be connected directly to one of the Arduino (or any microcontroller) digital pins. If any motion is detected by the sensor, this pin value will be set to “1”. The two potentiometers on the board allow you to adjust the sensitivity and delay time after detecting a movement.

Wiring

1. Singal to Pin 3
2. Power to 5V
3. GND to GND



Getting started

```
int ledPin = 13;           // LED
int pirPin = 3;            // PIR Out pin
int pirStat = 0;          // PIR status

void setup() {
  pinMode(ledPin, OUTPUT);
  pinMode(pirPin, INPUT);
}
```

```
Serial.begin(9600);  
  
}  
  
void loop(){  
  
  pirStat = digitalRead(pirPin);  
  
  if (pirStat == HIGH) {          // if motion detected  
    digitalWrite(ledPin, HIGH); // turn LED ON  
    Serial.println("Hey I got you!!!");  
  
  }  
  else {  
    digitalWrite(ledPin, LOW); // turn LED OFF if we have no motion  
  
  }  
}
```

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