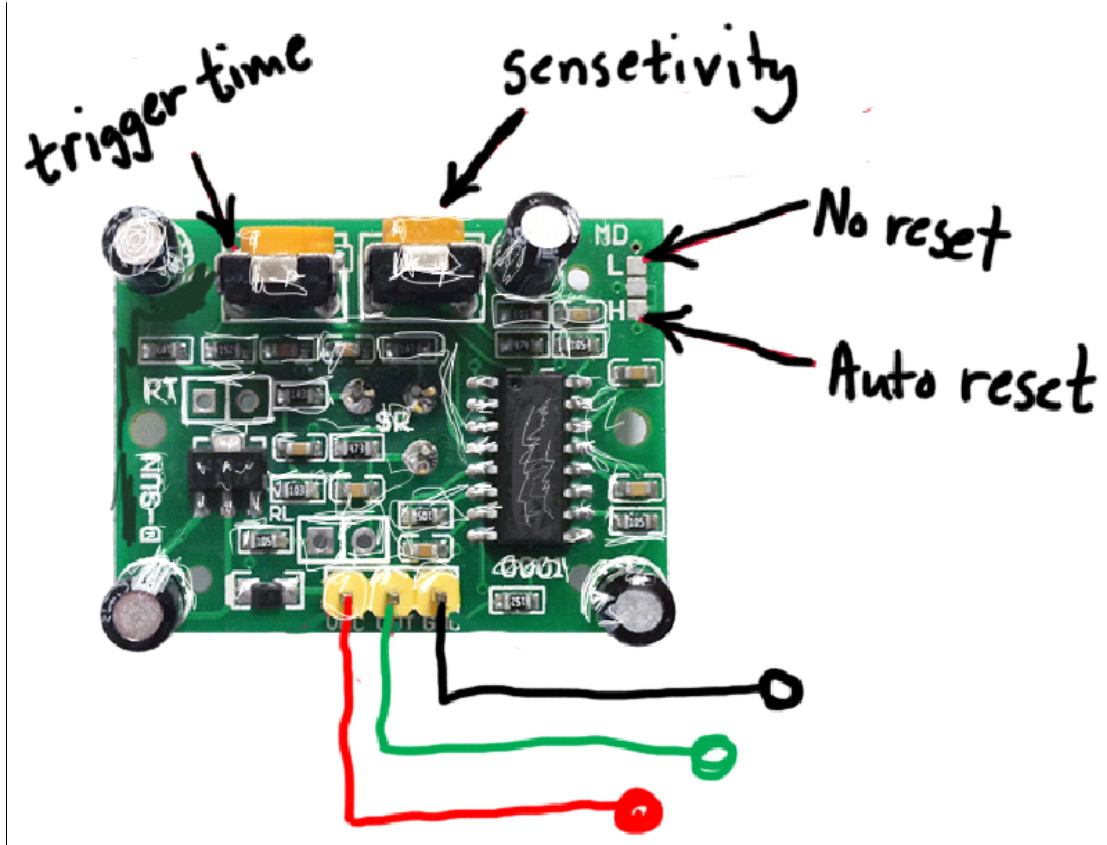




## PIR(passive infra red)

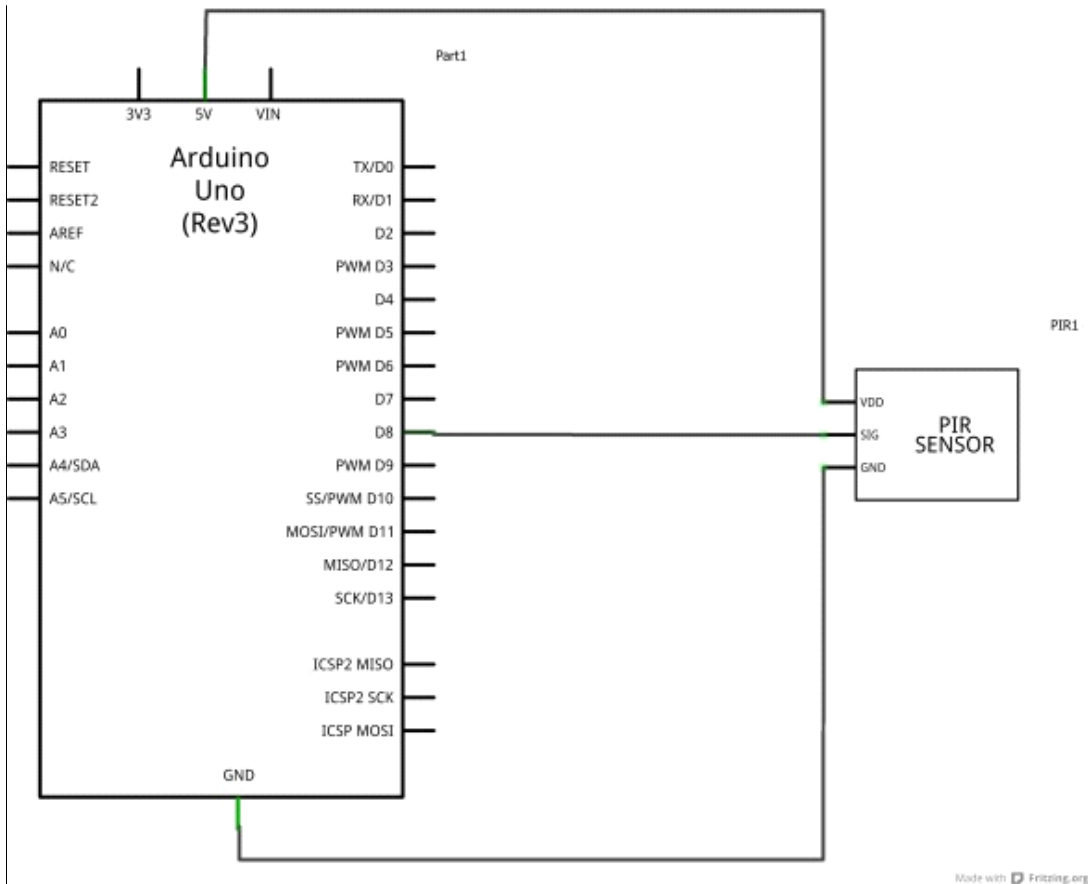


let's take a look on this sensor deeply

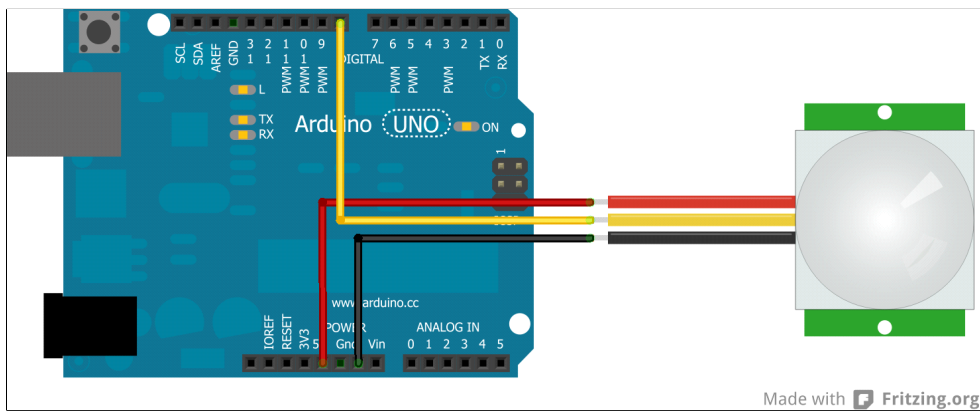


this sensor before adding the white part it's range is from 3m to 7 m but after adding this part it's range increased and it measures now with 110 degrees.

Schematic:



onArduino :



code :

File Edit Sketch Tools Help



PIRMotionSensor

```
const int PIRSensorPin = 2;    // the number of the Sensor pin
const int ledPin = 13;        // the number of the LED pin

// variables will change:
int sensorState = 0;          // variable for reading the Sensor status

void setup() {
  // initialize the LED pin as an output:
  pinMode(ledPin, OUTPUT);
  // initialize the Sensor pin as an input:
  pinMode(PIRSensorPin, INPUT);
}

void loop(){
  // read the state of the Sensor value:
  sensorState = digitalRead(PIRSensorPin);

  // check if the moving people sensed.
  // if it is, the sensorState is HIGH:
  if (sensorState == HIGH) {
    // turn LED on:
    digitalWrite(ledPin, HIGH);
  }
  else {
    // turn LED off:
    digitalWrite(ledPin, LOW);
  }
}
```