

Motion detection with a PIR Motion sensor (HC-SR501) and an Arduino

In this document, we will connect our HC-SR501 PIR (movement) Sensor to an Arduino. The Arduino will power the PIR sensor and when movement is detected, the PIR sensor will send a signal to Digital Pin 2. The Arduino will respond to this signal by illuminating the LED attached to Pin 13.

Components:

- Mini Breadboard 4.5cm x 3.5cm
- PIR Motion sensor (HC-SR501)
- LED and 330ohm resistor
- Breadboard Jumper Wire
- Arduino UNO (or compatible board)

We connect our Arduino with the PIR Motion Sensor as follows:

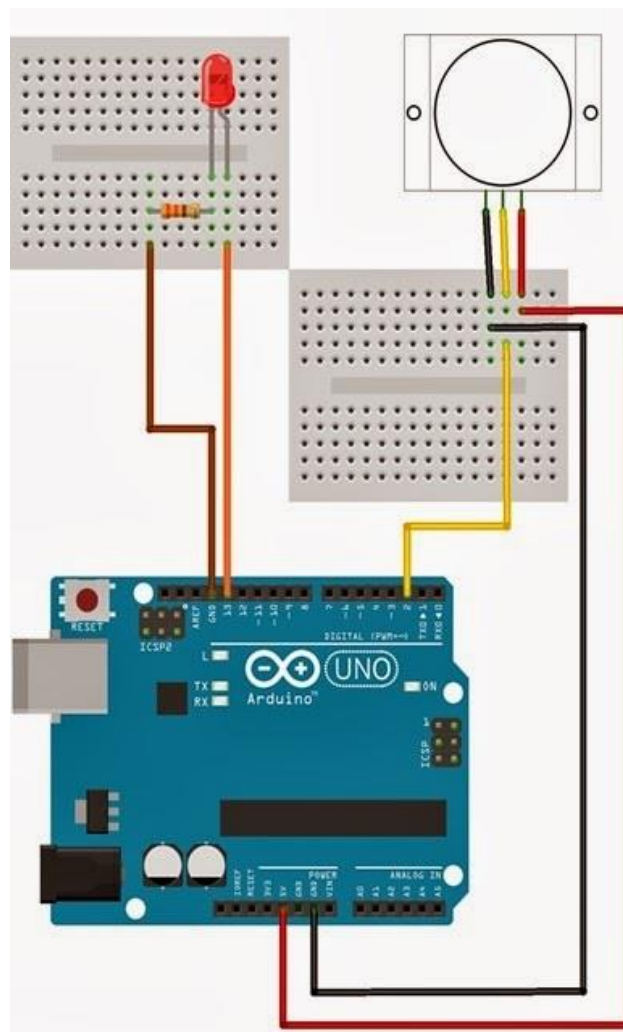


Fig. 1 Motion detection with a PIR Motion sensor (HC-SR501) and an Arduino

Reference

- <http://arduinobasics.blogspot.md/2013/12/pir-sensor-part-2.html>