

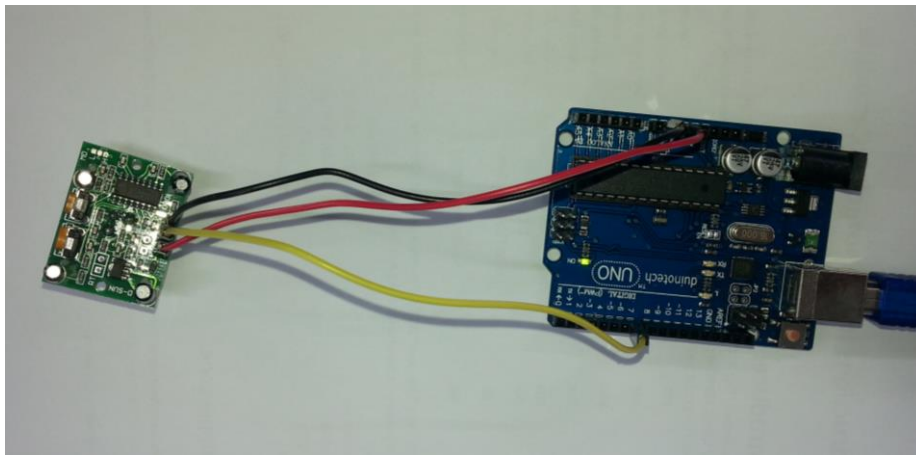
XC4444 PIR Sensor

The HC-SR501 PIR sensor has a lens which focuses the IR radiation given off by living things, and toggles the output pin high when it detects movement.

Pin	Duinotech Pin	Function	Comment
VCC	5V	5V supply	Supplies power to the module
OUT	D7	Sensor output	This output is low and goes high when the PIR senses movement.
GND	GND	Ground connection	Ground connection

The two potentiometers on the back are used to control sensitivity and pulse length adjustment. The one marked Tx is for the pulse length, and can range from about 5 seconds (fully counter clockwise) to 200 seconds (fully clockwise). Sx is for sensitivity, where counter clockwise is less sensitive and clockwise is more sensitive. For testing, try Tx fully counter clockwise (short pulse) and Sx about in the middle.

The OUT pin can be connected to any digital IO pin on the Duinotech Main Board. It is connected to pin 7 below.



There are no libraries needed for this module.

Sample Code:

```
//XC4444 PIR Sensor Module
//VCC and GND are connected to VCC and GND on the arduino
//Out is connected to a digital IO pin on the Arduino
//pin defines- pin 13 is connected to onboard LED
#define PIRPIN 7
#define LEDPIN 13

void setup() {
  pinMode(PIRPIN,INPUT);    //set PIRPIN as input
  pinMode(LEDPIN,OUTPUT);  //set LEDPIN as output
}

void loop() {
  bool pir;                //variable to hold input state
  pir=digitalRead(PIRPIN); //read input
  digitalWrite(LEDPIN,pir); //and set led to match.
}
```