



Garage lock system

First we have two kinds of sensors that we have chosen one of them

- 1- Ultrasonic
- 2- Infrared

Ultrasonic

Ultrasonic HC-SR04 depends on ultrasonic waves that check if there is something in front. And if it happens, waves will return back to sensor. In addition to it, it measures the distance between it and the object it is crashed.

Ultrasonic

How the sensor work

VCC : need to be connected to (5v)

Triger : this pin recieves signal (pulse) from Arduino.

ECHO : this pin send signal to Arduino that measure time of pulses to calculate distance.

GND : need to connect to (0v)

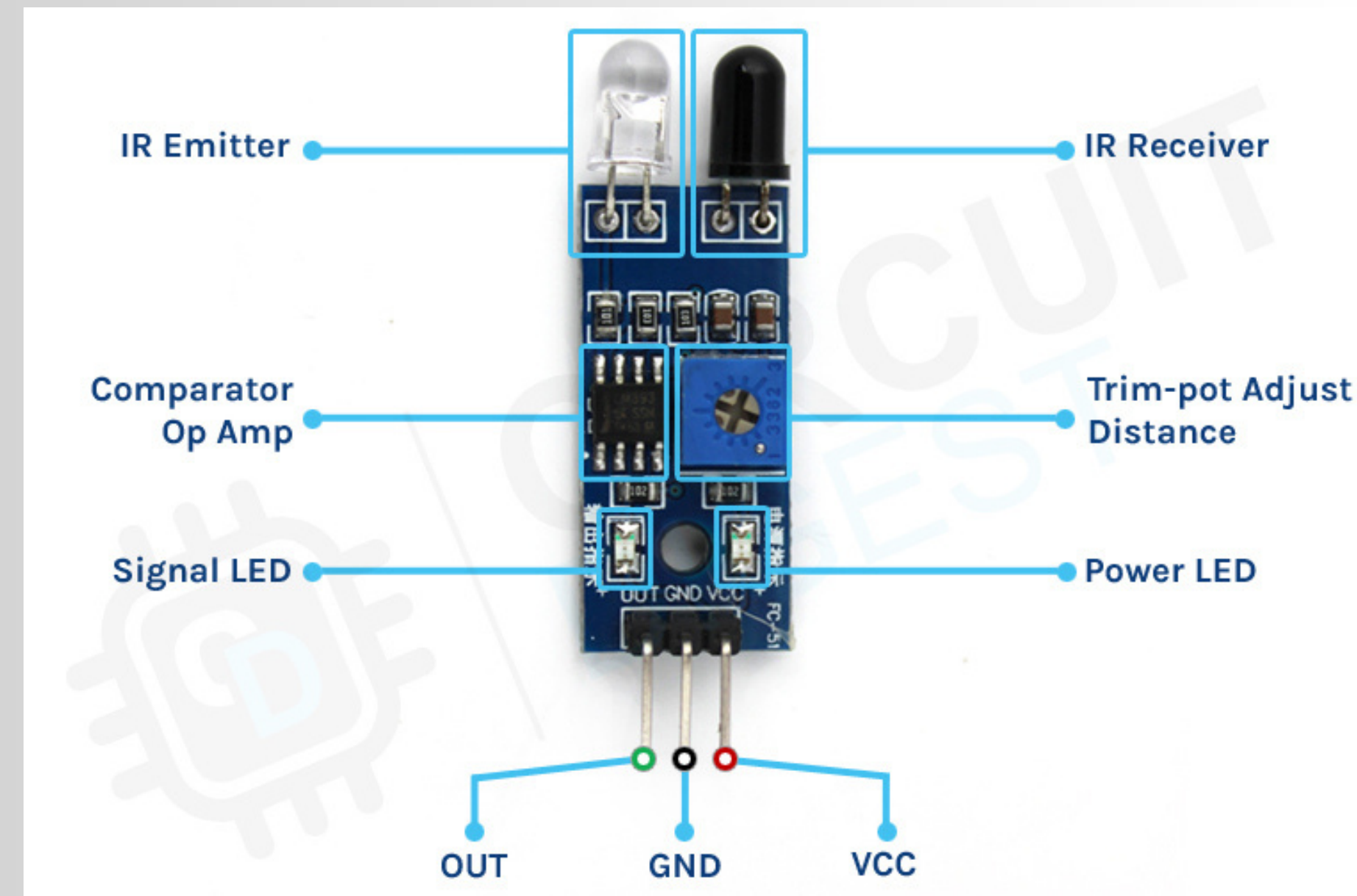
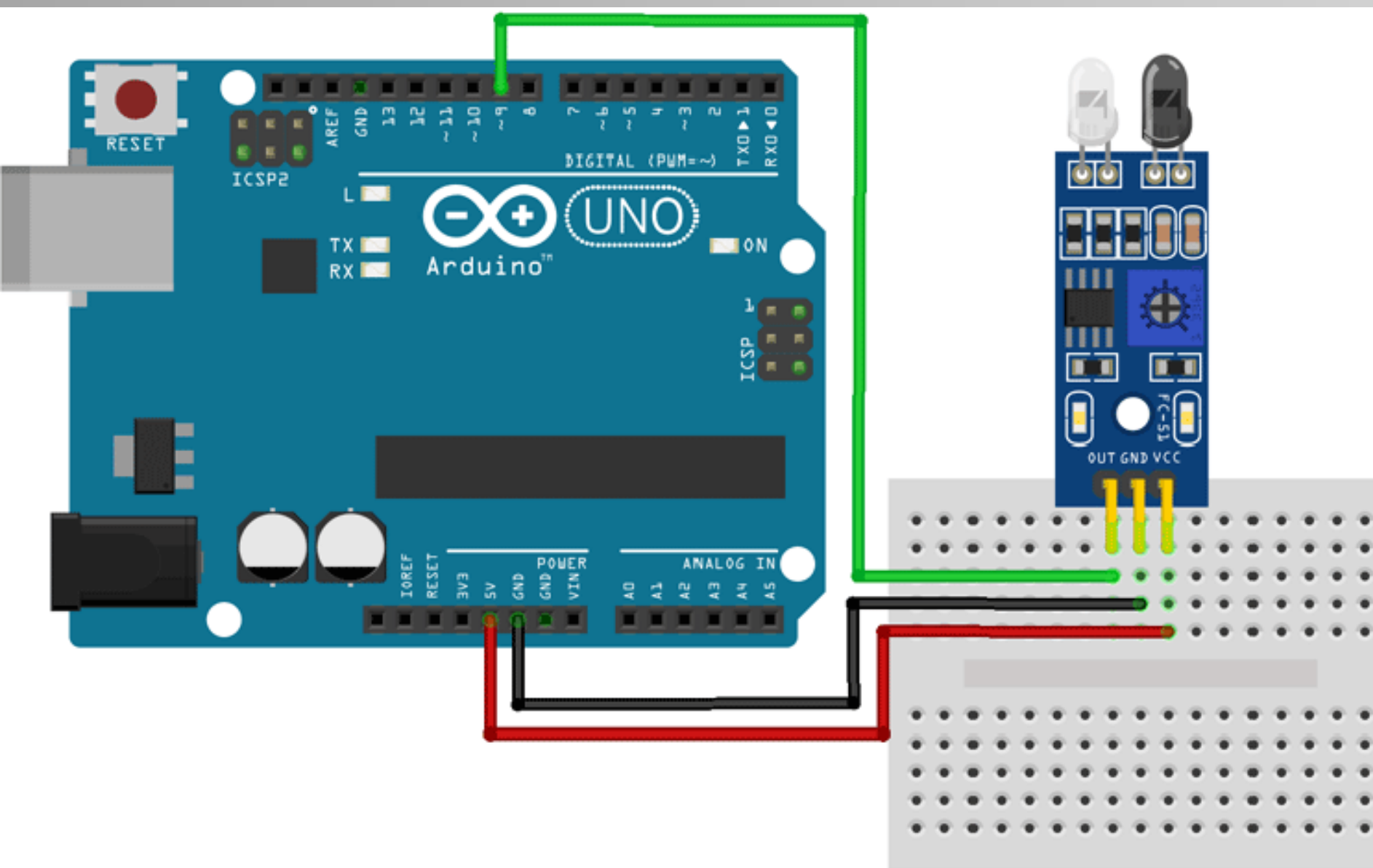
NOTE..

Ultrasonic HC-SR04 sense at range 2 cm to 400 cm



Infrared

It depend on measurement changes in tempertures that emitted from objects and environment



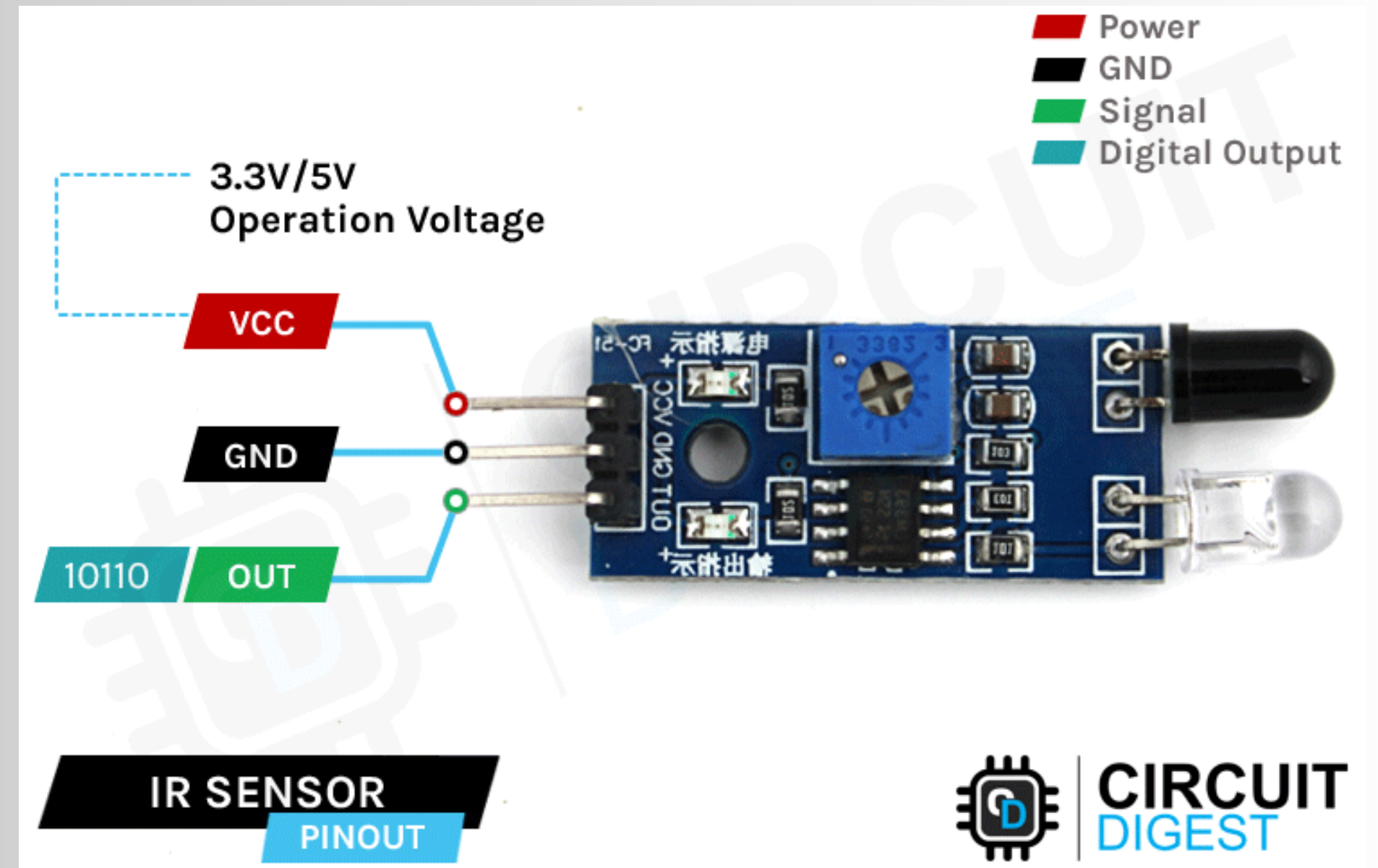
Infrared

How the sensor work

VCC : is the power supply pin for the IR sensor which we connect to the 5V pin on the Arduino.

Vout : pin is a 5V TTL logic output. LOW indicates no motion is detected; HIGH means motion is detected.

GND : Should be connected to the ground of the Arduino.



finally the question you ask is which sensor we use?

surely you do not know and I do not know but sebha ala allah ..

Message to mohamed Ibrahim..

please please **وحياة الحجة** leave this fucken ESP and hold Arduino we ganna **نتفشخ**

Tarek omar