**Sensor de distância ultrassônico – persiana**

HC – SR04

const int TriggerPin = 8;

const int EchoPin = 9;

long Duration = 0;

void setup() {

// put your setup code here, to run once:

pinMode(TriggerPin, OUTPUT);

pinMode(EchoPin, INPUT);

Serial.begin(9600);

}

void loop() {

// put your main code here, to run repeatedly:

digitalWrite(TriggerPin, LOW);

delayMicroseconds(2);

digitalWrite(TriggerPin, HIGH);

delayMicroseconds(10);

digitalWrite(TriggerPin, LOW);

Duration = pulseIn(EchoPin, HIGH);

long Distance\_cm = Distance(Duration);

Serial.print("Distance = ");

Serial.print(Distance\_cm);

Serial.println(" cm");

delay(600000); // QUIS DAR UM INTERVALO DE 10 MIN AQUI (ACHO SUFICIENTE)

}

long Distance (long time)

{

long DistanceCalc;

DistanceCalc = ((time\*0.034)/2);

return DistanceCalc;

}

Ligações:

GND – GND

ECHO – D9

TRIG – D8

VCC – 5V