

CONNECTION IN WOKWI FOR THE ULTRASONIC SENSOR

W sketch.ino - Wokwi Ar x W wokwi-arduino-uno R x [GitHub] Please verify x IBM

wokwi.com/projects/346766561676100180

WOKWI SAVE SHARE

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```
1  const int TRIG_PIN = 7 ;
2  const int ECHO_PIN = 8;
3  const unsigned int MAX_DIST = 23200;
4  void setup() {
5      pinMode(TRIG_PIN, OUTPUT);
6      digitalWrite(TRIG_PIN, LOW);
7      pinMode(ECHO_PIN, INPUT ) ;
8      Serial.begin(9600);
9  }
10 void loop() {
11     unsigned long t1;
12     unsigned long t2;
13     unsigned long pulse_width;
14     float cm;
15     float inches;
16     digitalWrite(TRIG_PIN, HIGH);
17     delayMicroseconds(10);
18     digitalWrite(TRIG_PIN, LOW);
19     while (digitalRead( ECHO_PIN )==0 );
20     t1= micros ();
21     while (digitalRead(ECHO_PIN) == 1);
22     t2= micros ();
23     pulse_width = t2-t1;
24     cm=pulse_width / 58 ;
25     inches = pulse_width/148.0;
26     if (pulse_width >MAX_DIST){
27         Serial.println("Out of range");
28     } else {
29         Serial.println("*****");
30         Serial.print("The Measured Distance in cm: ");
31         Serial.println(cm);
32     }
```

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IBM

← → ↻

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WOKWI

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Library Manager ▾

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Windows

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CODING:

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    Serial.println("Out of range");
  } else {
    Serial.println("*****");
    Serial.print("The Measured Distance in cm: ");
```

```
Serial.println(cm);  
if( cm < 100 ){  
    Serial.println("Alert!!");  
}  
Serial.print("*****");  
}  
delay(1000);  
}
```