

sketch.ino

diagram.json

Library Manager

Press **F11** to exit full screen

00:07.448

102%

```

1 // Pins
2 const int TRIG_PIN = 7;
3 const int ECHO_PIN = 8;
4
5 // Anything over 400 cm (23200 us pulse) is "out of range"
6 const unsigned int MAX_DIST = 23200;
7
8 void setup() {
9
10 // The trigger pin will tell the sensor to range find
11 pinMode(TRIG_PIN, OUTPUT);
12 digitalWrite(TRIG_PIN, LOW);
13
14 //Set Echo pin as input to measure the duration of
15 //pulses coming back from the distance sensor
16 pinMode(ECHO_PIN, INPUT);
17
18 // We'll use the serial monitor to view the sensor output
19 Serial.begin(9600);
20 }
21
22 void loop() {
23
24 unsigned long t1;
25 unsigned long t2;
26 unsigned long pulse_width;
27 float cm;
28 float inches;
29
30 // Hold the trigger pin high for at least 10 us
31 digitalWrite(TRIG_PIN, HIGH);
32 delayMicroseconds(10);
33 digitalWrite(TRIG_PIN, LOW);
34
35 // Wait for pulse on echo pin
36 while ( digitalRead(ECHO_PIN) == 0 );
37
38 // Measure how long the echo pin was held high (pulse width)
39 // Note: the micros() counter will overflow after ~70 min
40 t1 = micros();

```

Measured Distance is : 142.97 cm

Measured Distance is : 143.03 cm

Measured Distance is : 42.62 cm

Alert ON !!
