

Circuit design Brave Bigery | Tink
tinkercad.com/things/eL6qL8mcDG-brave-bigery/edit?tenant=druidits

Brave Bigery

Simulator time: 00:01:34

All changes saved

Code Stop Simulation Send To

1 (Arduino Uno R3)

Ultrasonic Distance Sensor
Name 1

11.3in / 28.8cm

HC-SR04

Arduino Uno

```
1 // Door Alarm Using Arduino UNO and Ultrasonic Sensor
2 // Code to be used in the Text sub-window of tinkercad.com
3
4 int trigger_pin = 2;
5 int echo_pin = 3;
6 int buzzer_pin = 10;
7 int time;
8 int distance;
9 void setup()
10 {
11     Serial.begin(9600);
12     pinMode(trigger_pin, OUTPUT);
13     pinMode(echo_pin, INPUT);
14     pinMode(buzzer_pin, OUTPUT);
15 }
16 void loop()
17 {
18     digitalWrite(trigger_pin, HIGH);
19     delayMicroseconds(10);
20     digitalWrite(trigger_pin, LOW);
21     time = pulseIn(echo_pin, HIGH);
22     distance = (time * 0.034) / 2;
23     if (distance <= 10)
24     {
25         digitalWrite(buzzer_pin, HIGH);
26     }
27 }
```

Serial Monitor

Door closed
Distance= 28
Door closed
Distance= 28
Door closed
Distance= 28
Door closed
Distance= 28
Door closed
Distance= 28

Send Clear