

## hc-sr04-Ultrasonic-Simulation.ino

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Ultrasonic Simple

Prints the distance read by an ultrasonic sensor in centimeters. They are supported to four pins ultrasound sensors (like HC-SC04) and three pins (like PING))) and Sseed Studio sensors).

The circuit:

\* \* Module HR-SC04 (four pins) or PING))) (and other with three pins), attached to digital pins as follows:

```
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| HC-SC04 | Arduino | | 3 pins | Arduino |
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| Vcc | 5V | | Vcc | 5V |
| Trig | 12 | OR | SIG | 13 |
| Echo | 13 | | Gnd | GND |
| Gnd | GND | -----
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```

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#include "Ultrasonic.h"

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Pass as a parameter the trigger and echo pin, respectively, or only the signal pin (for sensors 3 pins), like:

Ultrasonic ultrasonic(13);

```
*/  
  
Ultrasonic ultrasonic(12, 13);  
int distance;  
  
void setup() {  
  Serial.begin(9600);  
}  
  
void loop() {  
  // Pass INC as a parameter to get the distance in inches  
  
  distance = ultrasonic.read(CM);  
  
  Serial.print("Distance in CM: ");  
  Serial.println(distance);  
  
  distance = ultrasonic.read(INC);  
  
  Serial.print("Distance in Inches: ");  
  Serial.println(distance);  
  
  delay(1000);  
}
```