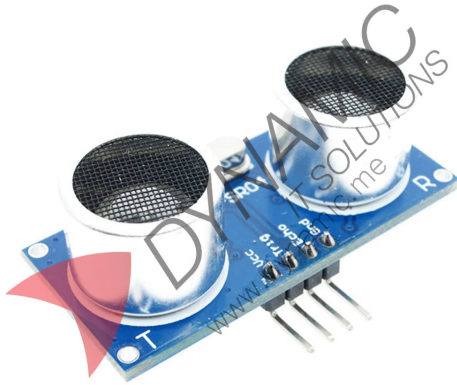


Ultrasonic Module HC-SR04



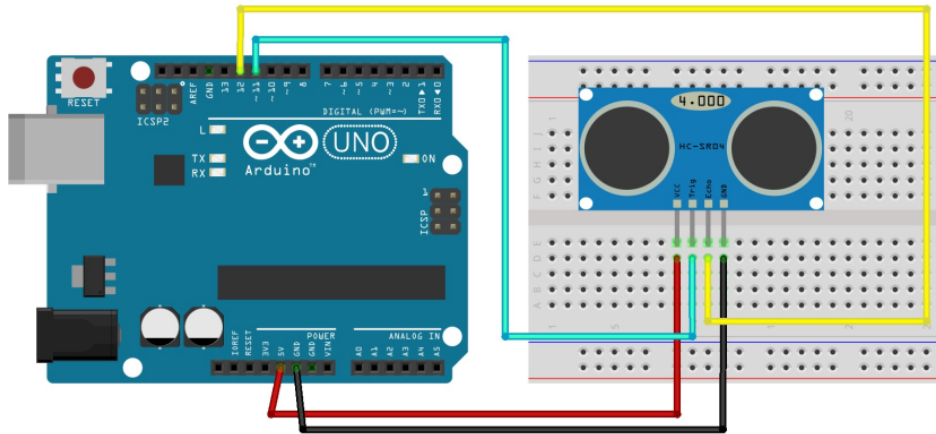
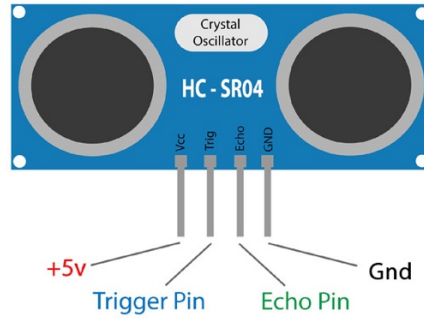
Feature

The Ultrasonic Module HC-SR04 enables non-contact distance measurement from 2 cm to 400 cm with an accuracy of +/- 3 mm. It uses ultrasonic waves for precise measurement and includes an integrated transmitter, receiver, and control circuitry. Designed for ease of use, it only requires a 10 μ s trigger pulse to initiate measurement and provides TTL level echo output proportional to distance. Ideal for robotics, automation, and obstacle detection systems.

| Specifications | |
|--------------------------|---|
| Model | HC-SR04 |
| Sensing Range | 2 cm – 400 cm |
| Output Type | TTL digital signal |
| Supply Voltage | 5 V DC |
| Working Current | 15 mA |
| Working Frequency | 40 kHz |
| Measuring Angle | 15 degrees |
| Trigger Signal | 10 us TTL pulse |
| Echo Output | TTL level, proportional to range |
| Accuracy | +/- 3 mm |
| Dimensions | 45 mm x 20 mm x 15 mm |
| Use Cases | Obstacle detection, robotics, automation systems, level sensing |

Pinouts:

| Pin Name | Type | Description |
|-------------|----------------|---|
| VCC | Power Input | 5 V power supply input |
| Trig | Digital Input | Trigger signal input (10 μ s TTL pulse) |
| Echo | Digital Output | Echo signal output, duration indicates distance |
| GND | Power Ground | Common ground |



Product Pictures:

