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## Ultrasonic Ranging Module HC - SR04

### Product features:

Ultrasonic ranging module HC - SR04 provides 2cm - 400cm non-contact measurement function, the ranging accuracy can reach to 3mm. The modules includes ultrasonic transmitters, receiver and control circuit. The basic principle of work:

- (1) Using IO trigger for at least 10us high level signal,
- (2) The Module automatically sends eight 40 kHz and detect whether there is a pulse signal back.
- (3) IF the signal back, through high level , time of high output IO duration is the time from sending ultrasonic to returning.

Test distance = (high level time×velocity of sound (340M/S) / 2,

### Wire connecting direct as following:

- 5V Supply
- Trigger Pulse Input
- Echo Pulse Output
- 0V Ground

### Electric Parameter

|                      |  |
|----------------------|--|
| Working Voltage      | DC 5 V   |
| Working Current      | 15mA   |
| Working Frequency    | 40Hz   |
| Max Range            | 4m   |
| Min Range            | 2cm  |
| MeasuringAngle       | 15 degree  |
| Trigger Input Signal | 10uS TTL pulse                                     |
| Echo Output Signal   | Input TTL lever signal and the range in proportion |
| Dimension            | 45*20*15mm   |