

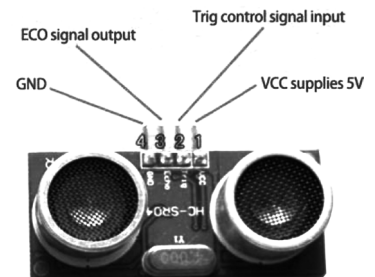
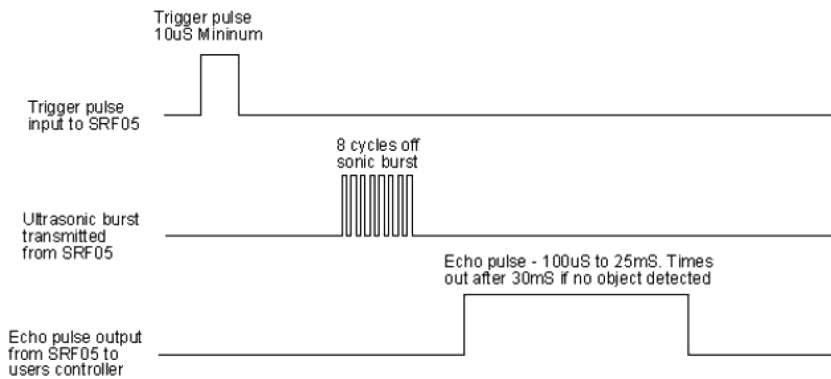
Description

The ultrasonic wave is applied to the distance measurement due to its high directivity, low energy consumption and long-distance transmission. The measurement of ultrasonic wave is quick, convenient and easy to operate. As for this ultrasonic sensor, it can detect the non-contact distance of 2cm to 450cm, and its accuracy reaches to 3mm. This module consists of ultrasonic emitter, receiver and the correspondent control circuit.

Specifications

Input Trigger Pulse	: 10US TTL level
Output Reclaimed Signal	: Output TTL level signal (height), proportional to the range
Power Supply	: +5V DC
Quiescent Current	: <2mA
Working Current	: 15mA
Detection Angle	: 15 Deg.
Ranging Distance	: 2cm to 450cm

Working Principle



1. Setting the delay time of Trig pin of SR04 to 10µs at least, which can trigger it to detect distance.
2. After triggering, the module will automatically send eight 40KHz ultrasonic pulses and detect whether there is a signal return. This step will be completed automatically by the module.
3. If the signal returns, the Echo pin will output a high level, and the duration of the high level is the time from the transmission of the ultrasonic wave to the return. The distance measured by ultrasonic wave = (speed * time)/2

Part Number Table

Description	Part Number
Ultrasonic Distance-Measuring Module	83-17989

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