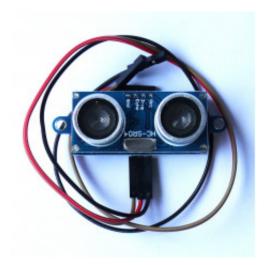
HC-SR04 Distance Sensor



Produktkode: 114aa **Tilgjengelighet:** 7

Lager: A7

Pris: kr. 35,00

Short Description

HC-SR04 Ultrasonic Wave Detector Ranging Module Distance Measuring PCB 4 Arduino

Beskrivelse Overview

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:

- Using IO trigger for at least 10us high level signal,
- The Module automatically sends eight 40 kHz and detect whether there is a pulse signal back.
- 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

If you are sourcing a ultrasonic ranging module , the HC-SR04 is good choose . Its stable performance and high ranging accuracy make it a popular module in electronic market .

Compared to the Shap IR ranging module, HC-SR04 is more inexpensive than it. But it has the same ranging accuracy and longer ranging distance.

Specifications

• power supply :5V DC

• quiescent current : <2mA

• effectual angle: $<15^{\circ}$

• ranging distance : 2cm – 500 cm

• resolution : 0.3 cm

There are 4 pins out of the module: VCC, Trig, Echo, GND. So it's a very easy interface for controller to use it ranging. The all process is: pull the Trig pin to high level for more than 10us impulse, the module start ranging; finish ranging, If you find an object in front, Echo pin will be high level, and based on the different distance, it will take the different duration of high level. So we can calculated the distance easily:

Distance = ((**Duration of high level**)*(**Sonic :340m/s**))/2

Product Gallery

