



Ultrasonic HC-SR04 Ranging Sensor ARD2-2020

- Uses ultrasonic sound to detect objects
- Applications include obstacle avoidance for robotics

Description

This Ultrasonic Sensor uses ultrasonic sound to detect objects from up to 4.5 metres away. It's ideal for obstacle avoidance on robotics projects. The module automatically sends eight 40kHz signals and detects whether there is a pulse signal back. If the module receives a signal, the duration of the HIGH output is the time between sending the ultrasonic signal and receiving it. The distance is then calculated by this duration multiplied by the velocity of sound (340m/s) divided by two.



Pinout		
Module	Arduino	Function
VCC	D2	Power Supply
Trig	D3	Output Pulse
Echo	D4	Input Pulse
Gnd	D5	Ground Connection







