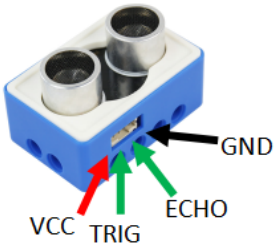
About ultrasonic sensors

1.Introduction to Ultrasonic Sensor

Ultrasonic sensors are sensors developed using the characteristics of ultrasound. When working, the transmitting sensor TRIG sends out an ultrasonic signal, which will be returned after being blocked by an obstacle. After the receiving sensor ECHO receives the ultrasonic signal, it transmits the signal to the microcontroller for processing. The microcontroller calculates the time it takes ECHO to receive the signal, thereby determining the current distance. The sound wave frequency that the human ear can hear is 20Hz~20KHz, and the sound frequency emitted by the ultrasonic module is greater than 20KHz, so the human ear cannot hear the sound of the ultrasonic module.

2.Sensor parameters



GND: connect GND	VCC: connect 3.3V, 5V
TRIG: Transmit a signal	ECHO: Receive signal
Working Voltage: 3.3V/5V	Size of module: 44.7mm*28.8mm
Accuracy: 0.5cm	Range: 2cm~500cm