

SPECIFICATIONS:

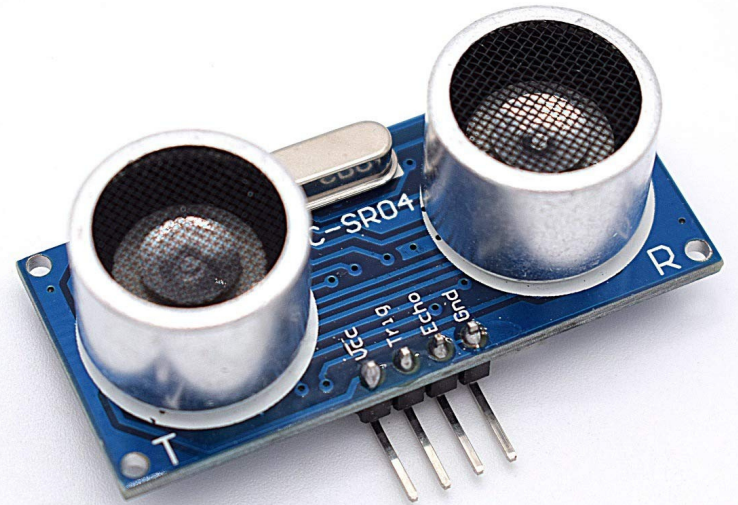
Power Supply :5V DC

Quiescent Current : <2mA

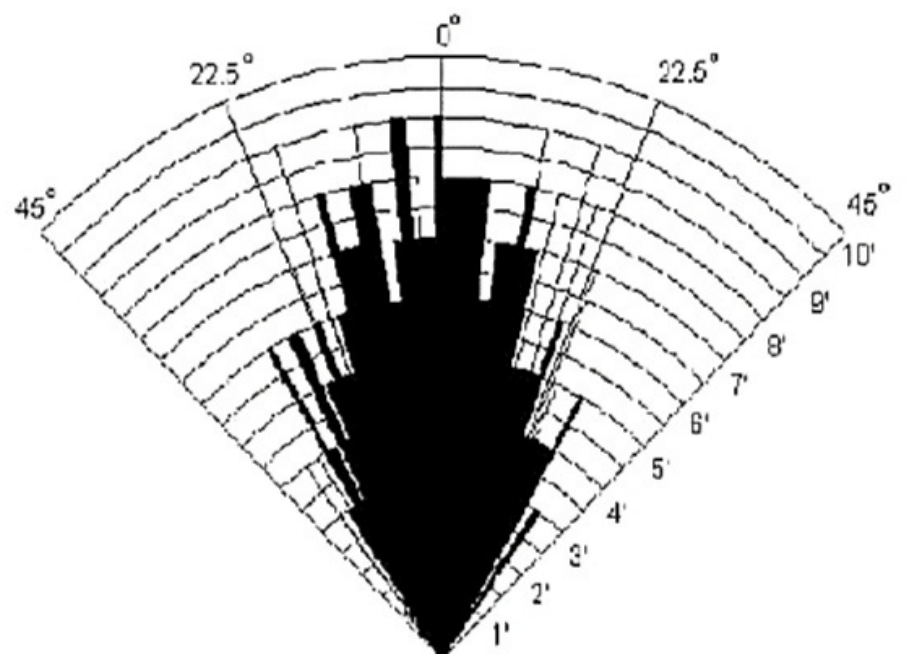
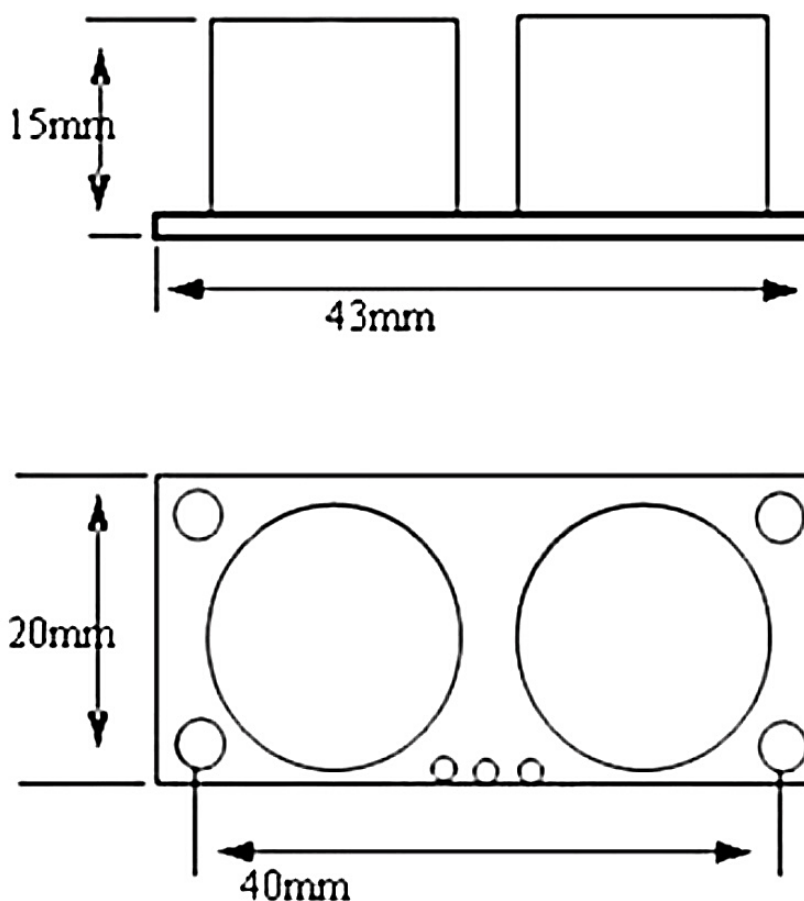
Effectual Angle: <15°

Ranging Distance : 2cm –500 cm

Resolution: 0.3 cm



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practical Test of performance
best in 30 degree angle

Sequence Chart

Initiate

Echo Back

Signal

10uS TTL to Signal Pin

Pulse width corresponds to distance
(about 140uS - 25ms, 38ms if no
obstacle)

Internal

Formula :

Pulse Width (uS) / 58 = distance (cm)

Pulse Width (uS) / 148 = distance (inch)

Ultrasonic Transducer Will Issue 8 40kHz Pulse

A short ultrasonic pulse is transmitted at the time 0, reflected by an object. The sensor receives this signal and converts it to an electric signal. The next pulse can be transmitted when the echo is faded away. This time period is called cycle period. The recommended cycle period should be no less than 50ms. If a 10us width trigger pulse is sent to the signal pin, the Ultrasonic module will output eight 40kHz ultrasonic signal and detect the echo back. The measured distance is proportional to the echo pulse width and can be calculated by the formula above. If no obstacle is detected, the output pin will give a 38ms high level signal.



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