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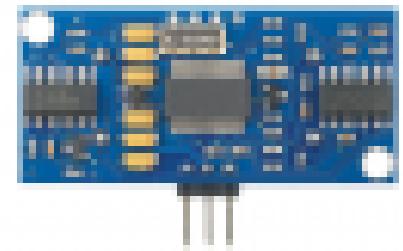
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Sensor

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Overview

Our PING)))™ ultrasonic [sensor](#) provides an [easy method](#) of [distance measurement](#). This sensor is perfect for any number of [applications](#) that require you to perform measurements between moving or stationary objects.

Interfacing to a microcontroller is a snap. A single I/O [pin](#) is used to trigger an ultrasonic burst (well above human hearing) and then "listen" for the echo return pulse. The sensor measures the time required for the echo return, and returns this value to the microcontroller as a variable-width pulse via the same I/O pin.

Key Features:

- Provides precise, non-contact distance measurements within a 2 cm to 3 m range
- Ultrasonic measurements work in any [lighting](#) condition, making this a [good choice](#) to supplement infrared object detectors
- Simple pulse in/pulse out communication requires just one I/O pin
- Burst [indicator LED](#) shows measurement in progress
- 3-pin [header](#) makes it easy to connect to a [development board](#), directly or with an [extension cable](#), no soldering required

Application Ideas:

- [Security systems](#)
- Interactive animated [exhibits](#)
- Parking assistant systems

- [Robotic navigation](#)

[Details](#)[Downloads & Documentation](#)[Additional Resources](#)

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