

# A02YYUW Waterproof Ultrasonic Sensor

SEN0311

## Product Overview

06-27-2022

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

DFRobot A02YYUW Waterproof Ultrasonic Sensor is an easy-to-use commercial-grade sensor module. This module determines the distance to a target by measuring the time lapse between sending and receiving the ultrasonic pulse. The A02YYUW sensor features a waterproof and dustproof 'closed separated probe' that is suitable for harsh and moist environments. All the signal processing units are integrated inside the module and the distance value is directly obtained through the asynchronous serial interface.



The A02YYUW communicates with the upper-host or other MCU with a 9600bit/s band rate that greatly shortens the developing cycles. Applications include backing car annunciator, obstacle avoidance robot, and object approach detection.

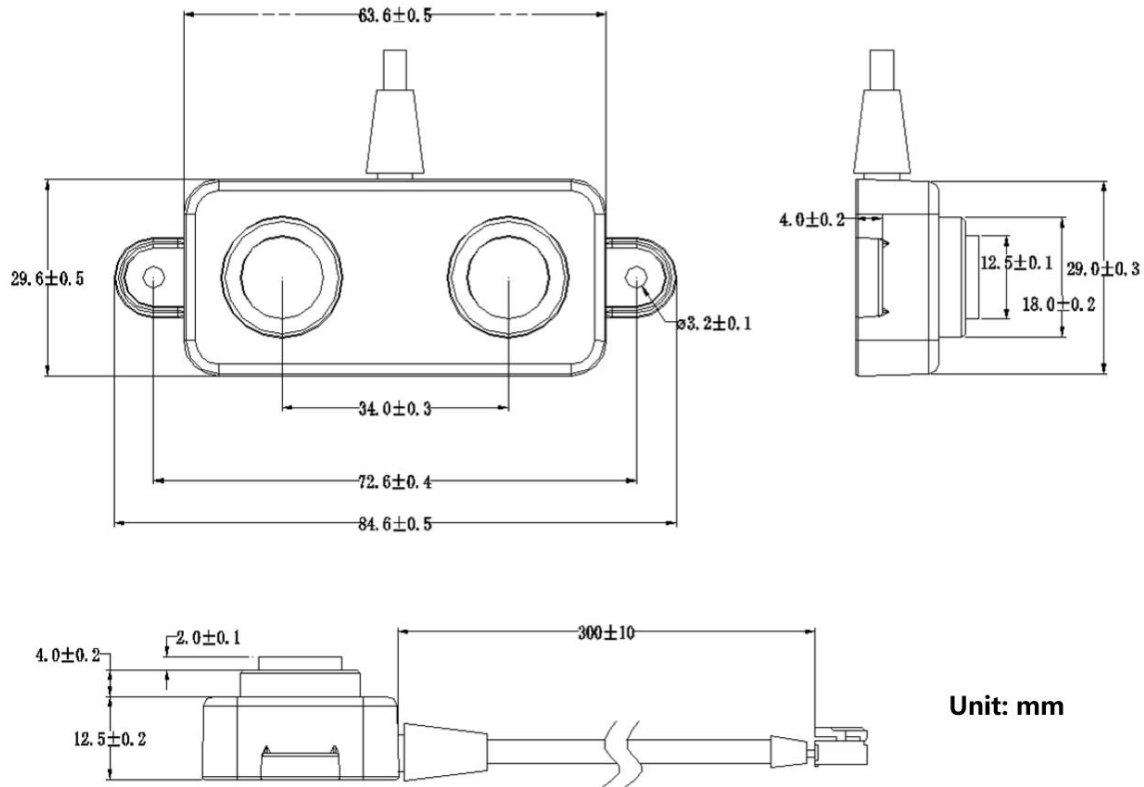
## Specifications

- 3.3V to 5V operating voltage range
- <8mA average current
- 3cm blind zone distance
- 3cm to 450cm detecting range (flat object)
- 100ms response time
- -15°C to 60°C operating temperature range
- IP67 waterproof grade

## Applications

- Backing car annunciator
- Obstacle avoidance robot
- Object approach detection

## Dimension Diagram



## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-a02yyuw-ultrasonic-sensor/>