

# A01NYUB Waterproof Ultrasonic Sensor

SEN0313

## Product Overview

07/27/2022

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

## Description

DFRobot A01NYUB Waterproof Ultrasonic Sensor determines the distance to a target by measuring time lapses between the sending and receiving of the ultrasonic pulse. All the signal processing units are integrated inside the module and the distance value is directly obtained through the Asynchronous Serial Interface. This A01NYUB ultrasonic sensor provides a removable bell-mouth and a 7.5m effective measuring distance when the bell-mouth is installed. The A01NYUB ultrasonic sensor features a farther monitoring device, a wider detection range, and penetration power to smog and dust. This ultrasonic sensor module communicates with the upper-host or other MCU with a 9600bit/s band rate that greatly shortens the developing cycles. The A01NYUB sensor is compatible with 3.3V to 5V devices like Arduino and Raspberry Pi.



## Features

- High protection rate
- Strong resistance
- Stable output
- Low power
- Fast response
- High antistatic performance
- Wide operating temperature
- High accuracy
- Small in size

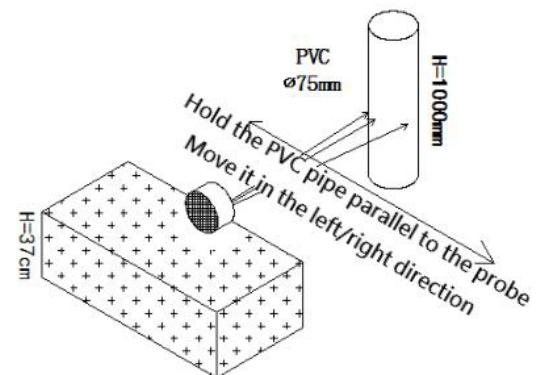
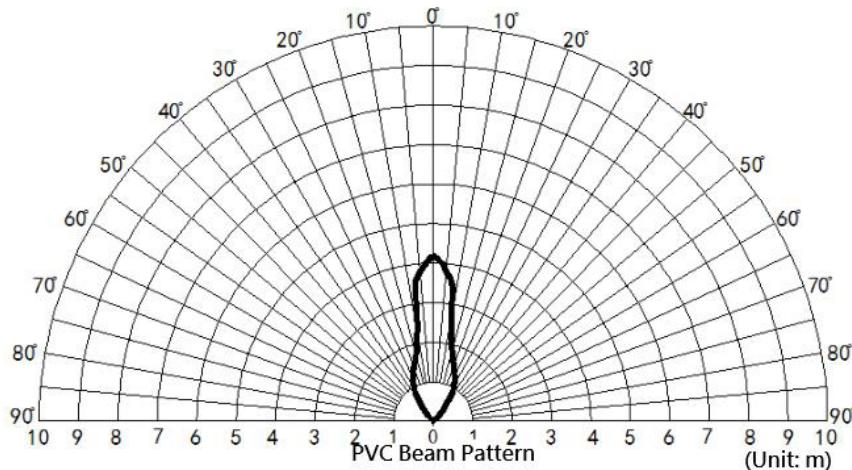
## Specifications

- 3.3V to 5V operating voltage range
- 15mA average current
- <28cm blind zone
- 28cm to 750cm detection range (flat object)
- 100ms response time
- -15°C to 60°C operating temperature range

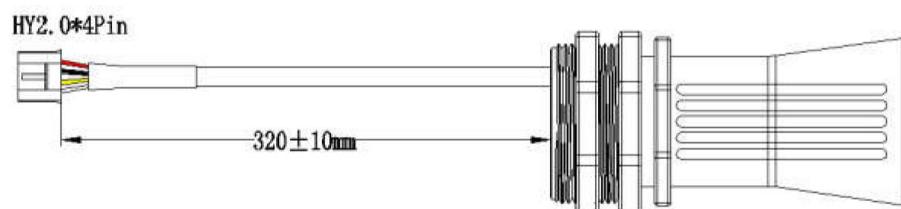
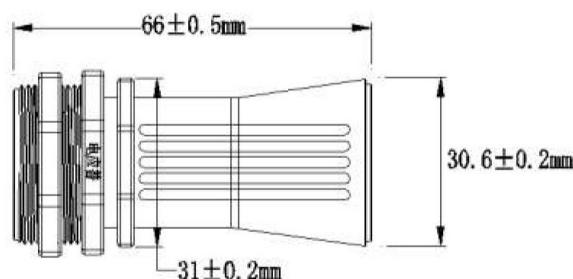
## Specifications

- -25°C to 80°C storage temperature range
- IP67 waterproof grade
- UART output
- 40K±1.0KHZ probe center frequency
- 1mm resolution
- Sensing angle:
  - 55° with bell-mouth
  - 40° without bell-mouth

## Beam Directionalities Diagram



## Dimension Diagram



## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-a01nyub-ultrasonic-sensor/>