

# ME007YS Waterproof Ultrasonic Sensor

SEN0312

## 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

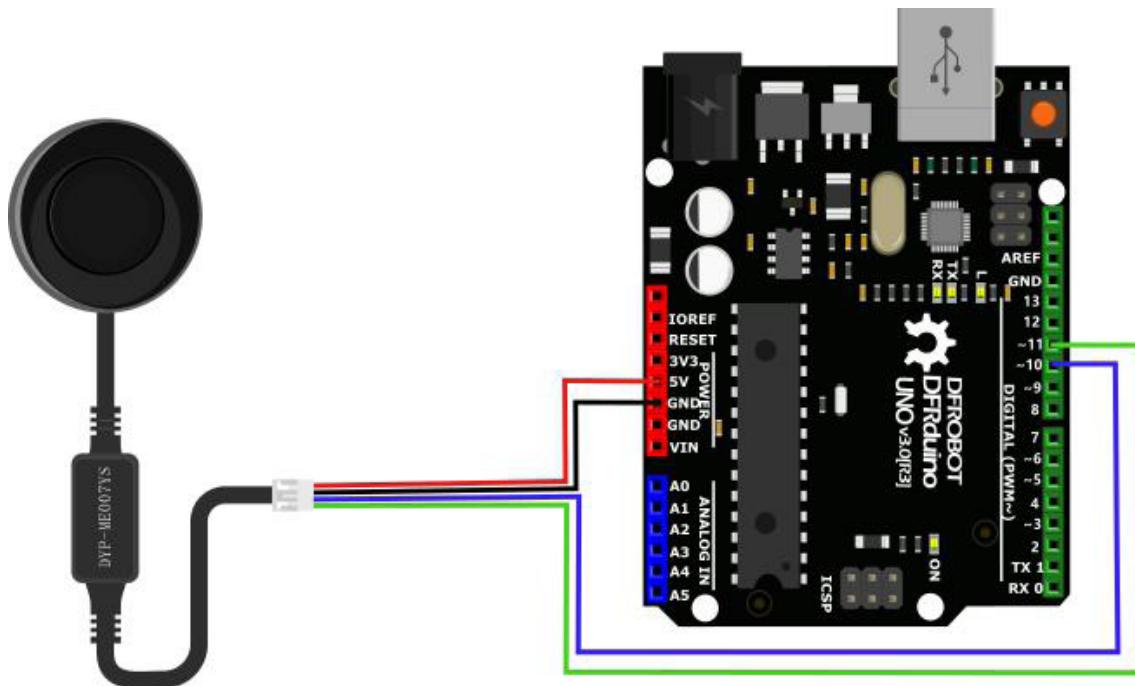
DFRobot ME007YS Waterproof Ultrasonic Sensor provides the distance to a target by measuring time lapses between sending and receiving of the ultrasonic pulse. This sensor features high accuracy, steady data output, and penetration power to smog and dust. All the signal processing units are integrated inside the module and the distance value is directly obtained through Asynchronous Serial Interface. The ME007YS sensor module communicates with the upper-host or other MCU with a 9600bit/s band rate that greatly shortens the developing cycles.



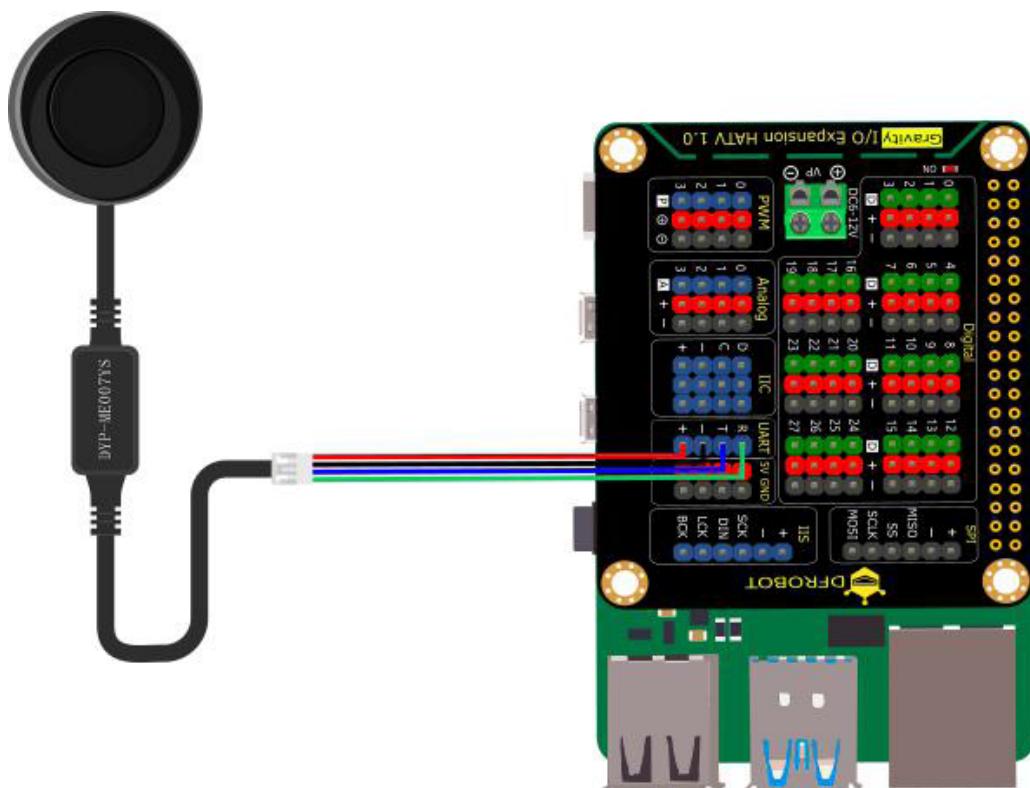
## Features

- 5V operating voltage
- <8mA average current
- ≤50mA peak current
- 28cm blind zone distance
- 100ms duty cycle
- 40K ± 1KHz probe center
- -15°C to 60°C operating temperature range
- -25°C to 80°C storage temperature range
- ≤80% operating humidity
- ≤90% storage humidity
- 28cm to 450cm detection range (flat object)
- IP67 waterproof grade

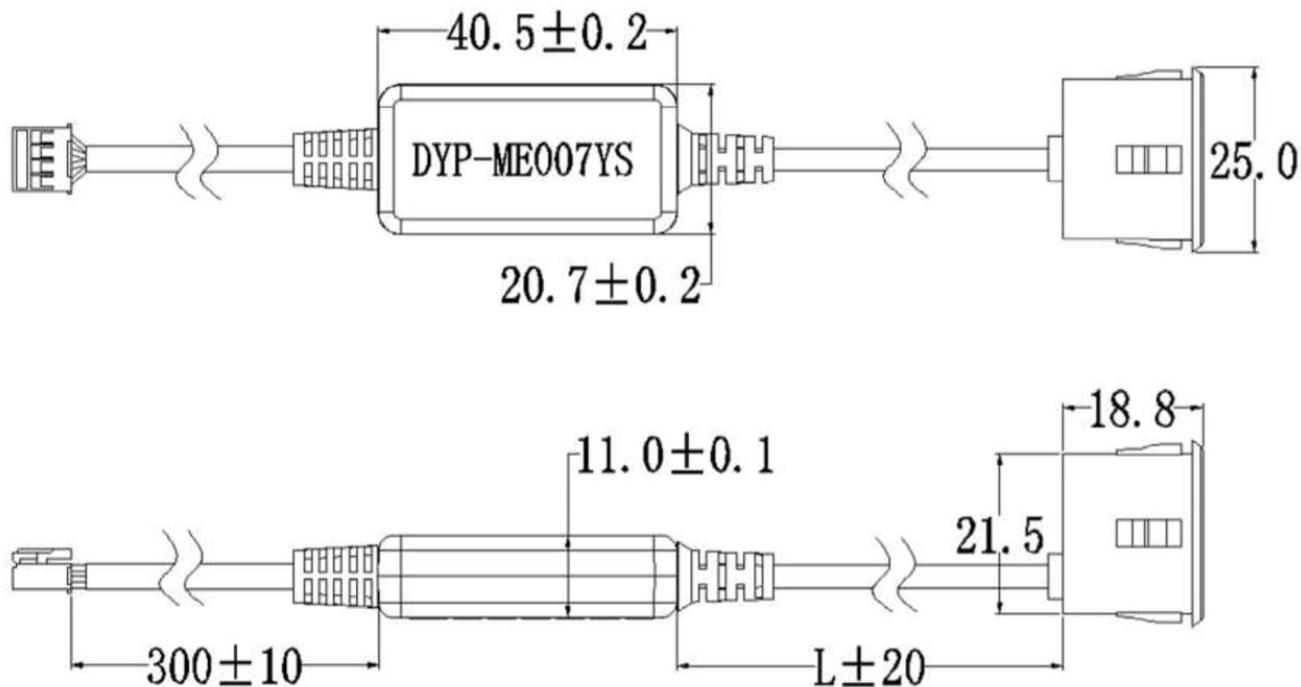
## Connection with Arduino



## Connection with Raspberry Pi



## Dimension Diagram



Proportion: 1:1

Unit: mm

Note: the default length L is 1000mm

## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-me007ys-ultrasonic-sensor/>