

URM14-RS485 Precision Ultrasonic Sensor

High-frequency precision ultrasonic sensor for industrial use

Product Overview

06/30/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The URM14-RS485 Precision Ultrasonic Sensor (200KHz) from DFRobot is a high-frequency precision ultrasonic sensor for industrial use. The sensor measurement and signal processing unit is completely encapsulated in an M18 metal shell. Its tail is designed with an aviation connector plug. The sensor uses the RS485 interface that follows the standard Modbus-RTU communication protocol, which assures its compatibility with PLC industrial personal computers.



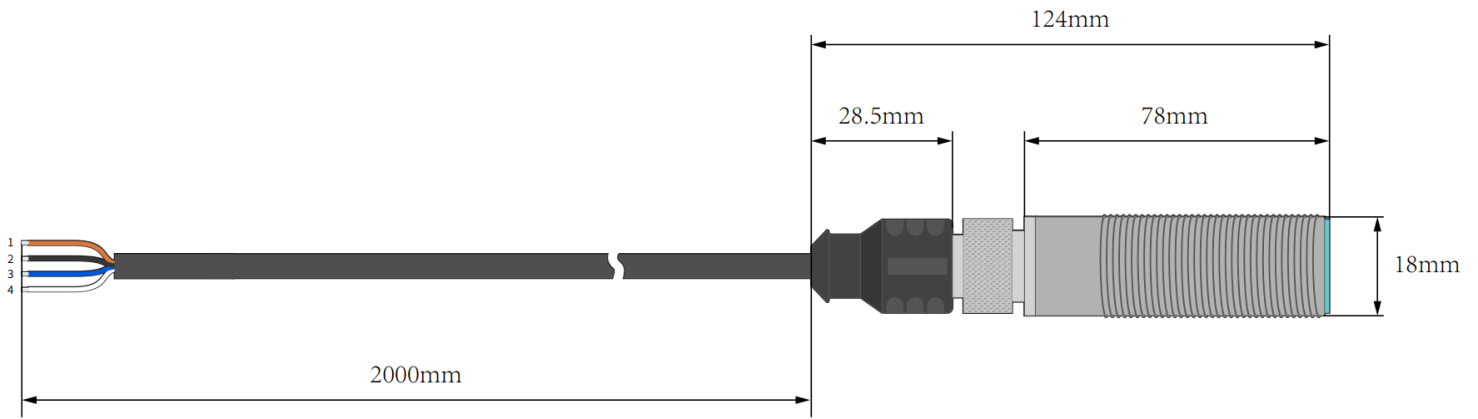
Features

- Operating Voltage DC 7-15V
- Max Instantaneous Current 350mA
- Effective Measuring Range 100-1500mm
- Distance Resolution 0.1mm
- Measuring Accuracy 1mm
- Distance Error $\pm 0.1\%$
- Temperature Resolution 0.1°C
- Temperature Error $\pm 1^{\circ}\text{C}$
- Measuring Frequency 30HZ
- Operating Temperature $-20^{\circ}\text{C}\sim +80^{\circ}\text{C}$
- Sensor Acoustic Frequency $200\text{KHz}\pm 4\%$
- Directional Angle $12^{\circ}\pm 2^{\circ}(-6\text{dB})$
- Protection Grade IP65
- Communication Interface RS485

Kit Contents

- 1x URM14-RS485 precision ultrasonic sensor (200KHz)
- 2x Mounting Nut

Dimensions



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-urm14-rs485-sensor/>