

INTRODUCTION

This is an ultrasonic distance sensor(ULS) of high performance with an enclosed waterproof probe. The sensor, like many other ultrasonic sensors, based on the principle of ultrasonic echo ranging, determines the distance to a target by measuring time lapses between the sending of a pulse and receiving of the echo without contacting. It can be used to detect transparent or non-ferrous objects, metal or non-metallic objects, liquid, solid, powder materials and so on. The unique physical bell-mouth shell of the sensor greatly improves the directivity and stability of its output ultrasound.

There are two output modes for the sensor: RS232 output and voltage analog output. The default mode of the product is RS232 output, and it can be changed through the button

Note: the internal probe surface is regarded as the detecting starting point by default. If you take the plane of the bell-mouth as starting point, then the distance will be the detected distance minus 40mm.

ULA Beam Directionalities Diagram

Dimension Diagram

FEATURES

- High Degree of Protection
- Wide Power Supply Range, Low Power Consumption
- High Measuring Accuracy and Resolution
- High-Precision Temperature Output and Temperature Compensation Function
- Great Output Compatibility: Standard RS232 Output and Voltage Analog Output

 Operating Current: average current <10mA (based on power supply: 5V; duty cycle: 250ms) • Blind Zone: 270mm • Detection Distance RS232 Mode: Blind Zone: 270mm Maximum Detection Distance: 8000mm Analog Mode: Blind Zone: 270mm Maximum Detection Distance can be got by calculation through through programs(output voltage 3.3V) • Resolution: 1mm • Operating Temperature: -15°C-60°C • Storage Temperature: -25°C-80°C DOCUMENTS • Product Wiki SHIPPING LIST • Water-proof Ultrasonic Sensor (ULA) x1 • Screw bag x1 • Connector x1 REVIEW FAQ 0 Comments DFRobot 🔓 Disqus' Privacy Policy 🜒 Login 🕝 ▼ Tweet f Share Sort by Best ▼ C Recommend ırt the discussion... Be the first to comment Subscribe Add Disgus to your site ▲ Do Not Sell My Data **DISQUS** Sign up for exclusive offers! Like us on in Your email address **INFORMATION CUSTOMER SERVICE** MY ACCOUNT FROBOT **DFRobot Distributors Affiliates** Warranty Contact us Specials **Privacy Policy** Site Map Coupon Shipping Payment

Supply Voltage: 5V~12VCenter Frequency: 40KHZ