

Sensors / Range & Distance Sensors / IP68 Underwater Ultrasonic Obstacle Avoidance Sensor (3m, UART)



IP68 Underwater Ultrasonic Obstacle Avoidance Sensor (3m, UART)

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* Model: 6m 3m

Quantity: - 1 +

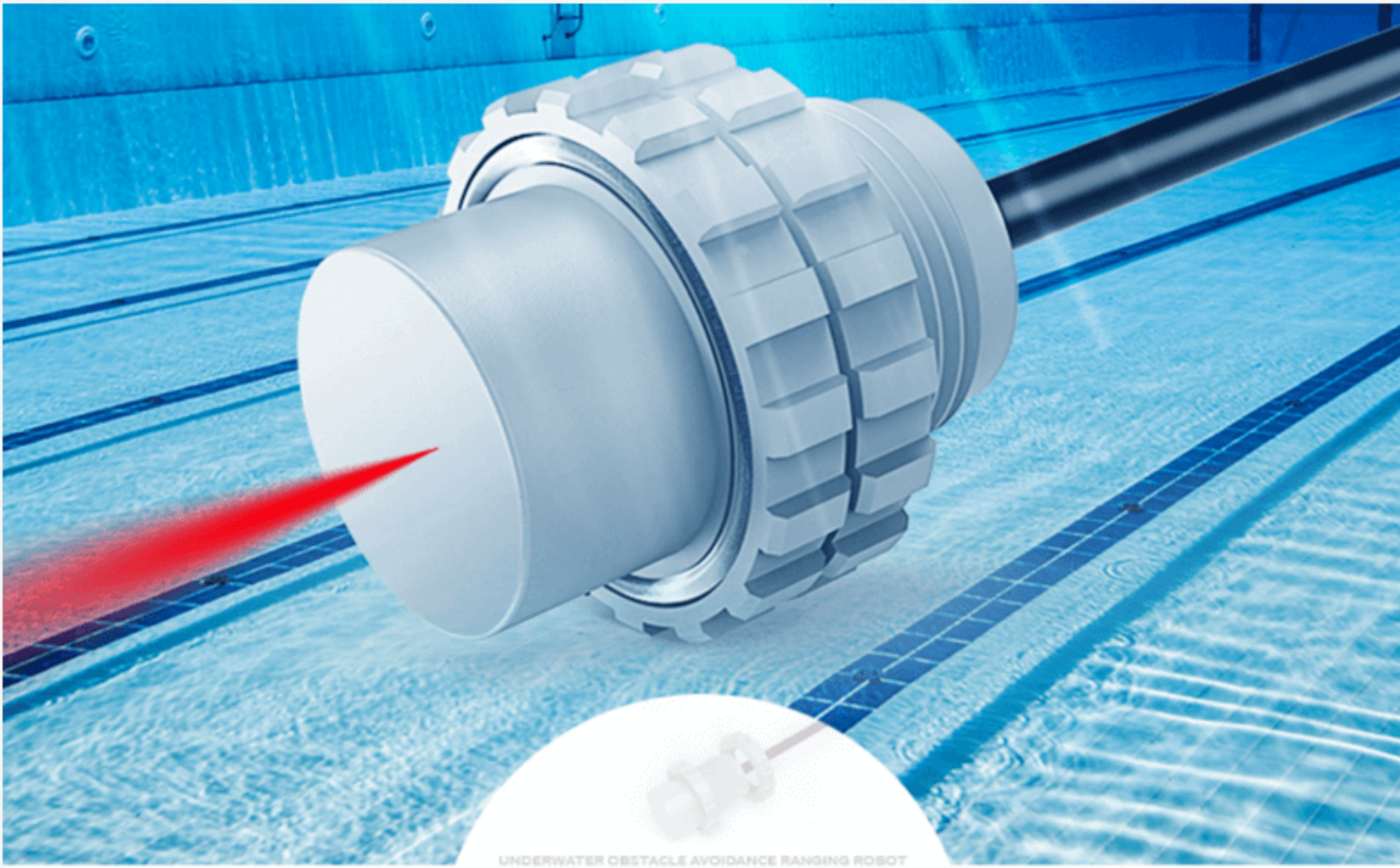
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INTRODUCTION

This is an underwater ultrasonic obstacle avoidance sensor specifically designed for underwater applications. It operates on a wide voltage range of 5-24V and features compact size, minimal blind spots, high precision, and high protection. Its underwater measurement range is from 2-300cm.



With an IP68 protection rating, this sensor can replace a camera for obstacle avoidance and meet the requirements of normal underwater navigation speeds. By using this obstacle avoidance sensor, underwater vehicles can achieve true "unmanned driving" without the need for human observation. Even at a depth of 10m, obstacle avoidance can still be easily accomplished.

☐ Waterproof level of IP68

Thanks to its small size and minimal blind spots, this sensor takes up minimal space and can be easily integrated into various projects.

☐ Compact in size, with a small blind zone

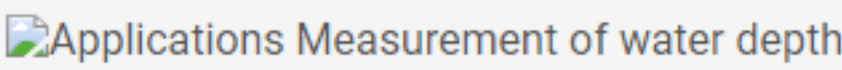
Note: The sensor can **only be used underwater** as it requires the presence of water to provide accurate data.

FEATURES

- Compact in size, with a small blind zone
- Lightweight and fast response time
- Waterproof level of IP68

APPLICATIONS

- Underwater robot obstacle avoidance and self-control detection
- Measurement of water depth by underwater robots



SPECIFICATION

- Measurement Range: 2-300cm
- Measurement Accuracy: $\pm(0.5+S*0.5\%)cm@<2m$, $\pm(1+S*1\%)cm@>2m$
- Operating Voltage: 5-24V
- Standby Current: $\leq 1mA$
- Operating Current: $\leq 10mA$
- Output Mode: UART controlled
- Power-on Startup Time: $\leq 500ms$
- Output Response Time: 10ms
- Angle: 5-10°
- Operating Temperature: -15~50°C
- Storage Temperature: -25~80°C
- Storage Humidity: 65%~90% RH (non-condensing)

DOCUMENTS

- [Product wiki](#)

SHIPPING LIST

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