

Sensors / Range & Distance Sensors / Mini Laser Distance Range Sensor (4m, I2C, IP67)



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INTRODUCTION

This laser [distance ranging sensor](#) has a compact size, comparable to the size of a fingernail, and a measurement range of up to 4m. It is specifically designed to address the issues commonly found in distance sensors on the market, such as large size, slow response time, and poor installation adaptability.

It boasts a range of advantages including small size, minimal blind zone (Measurement accuracy: $\leq 25\text{cm} @ \pm 1\text{cm}$, $> 25\text{cm} @ \pm 5\% \text{cm}$), fast response time (19-38ms), high installation adaptability, dust and water resistance (IP67), long lifespan, and high reliability.

The sensor outputs data through an I2C interface, which allows users to easily integrate it with [Arduino IO expansion boards](#).

It finds widespread applications in various fields, including smart furniture with motion sensing capabilities, home security systems, intelligent detection systems, smart control systems, robot obstacle avoidance, and object proximity and presence detection.

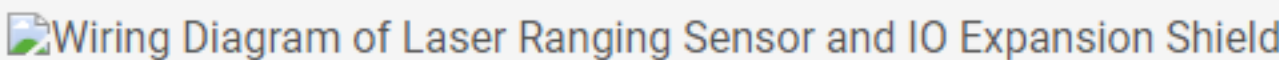


Figure: Wiring Diagram of Laser Ranging Sensor and Arduino IO Expansion Shield

FEATURES

- Compact size and small blind zone
- Lightweight and fast response time
- Simple to use with I2C output
- IP67 waterproof rating

APPLICATIONS

- Smart furniture with motion sensing capabilities
- Home security systems
- Intelligent detection systems
- Smart control systems
- Robot obstacle avoidance
- Object proximity and presence detection

SPECIFICATION

- Measurement range: 2-400cm.
- Measurement accuracy: $\leq 25\text{cm} @ \pm 1\text{cm}$, $> 25\text{cm} @ \pm 5\% \text{cm}$ (with an actual error of around 5mm).
- Operating voltage: 3.3-5V.
- Idle current: 2mA.
- Operating current: < 19mA.
- Communication method: I2C.
- Output response time: 19-38ms.
- Power-on delay time: $\leq 800\text{ms}$.
- Detection angle: 19°.
- Operating temperature: $-15^{\circ}\text{C} \sim 60^{\circ}\text{C}$.
- Operating humidity: 65% ~ 80%RH.
- Storage temperature: $-30^{\circ}\text{C} \sim 80^{\circ}\text{C}$.
- Storage humidity: 65% ~ 90%RH.

DOCUMENTS

- [Product wiki](#)

SHIPPING LIST

- Laser Ranging Sensor (4m) x1

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