

LR-50M laser displacement sensor

I. Product introduction

LR-50M laser displacement sensor, the distance is as far as 50m, and the highest accuracy can reach $\pm 1\text{mm}$.

LR-50M laser ranging sensor has rich industrial data interfaces (RS232, RS485, 4 ~ 20 mA, etc.) and strong anti-interference ability. It is widely used in various industrial control and various field monitoring and detection sites such as iron and steel industry, metallurgy industry, automobile industry, printing industry and food industry.

Second, the application occasion

1. Reflector measures the distance of various objects;
2. The filter can measure the high temperature object;
3. Explosion-proof box can be used in explosion-proof environment;
4. Swing motor can be used for 2D profile measurement.



III. Performance indicators

1. Optical parameters

Laser characteristics: red laser diode.

Wavelength: 620 nm ~ 650 nm

Laser level: Level 2. Spot type: point.

Spot size: spot spot 3mm@10m.



2. Electrical parameters

Operating voltage: 12V.

Current: less than 290 mA.

Laser power: less than 1 milliwatt.

3. Mechanical parameters

Material: aluminum alloy coating or plastic spraying.

Window: glass window.

Wiring mode: aviation plug or 1m shielded wire reserved.

4. Environmental parameters

Protection grade: waterproof and dustproof, IP65 grade, according to EN60529 standard.

Storage temperature:-30°C ~+70°C.

IV. Technical parameters

1. Measuring range: 0.2m~50m (customized);
2. Accuracy: $\pm 1\text{mm}$; ;
3. Resolution: 1mm; ;
4. Sampling frequency: 2Hz~10Hz; ;
5. Output mode: RS485/RS232/TTL/4 ~ 20mA/0-5V/0-10V (either one);
6. Working mode: power-on work/command control;
7. Input voltage: 12V; ;
8. Work consumption: 1w;
9. Spot diameter: 10mm@30m; ;
10. Working temperature:-10°C ~+50°C;
1. Storage temperature:-30°C ~+80°C;
12. Overall dimensions: 60×30×23mm (digital output); 238×76×45mm (digital and analog output).

V. Maintenance and maintenance

1. Clean and keep dry.
2. Blow off the dust on the mirror.
3. Do not touch the lens with your fingers.
4. Wipe with clean soft cloth only. Wipe with pure alcohol or wet cloth if necessary.
5. If you accidentally wet the instrument, don't expose it to the sun, but air dry it.
6. Please turn off the power supply if it is not used for a long time, so as not to affect the service life.

VI. Matters needing attention

- ◆ Do not tear off or damage the warning label when using this instrument.
- ◆ Avoid direct laser radiation to the eyes, which will lead to instantaneous blind spots in the eyes.

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- ◆ Please do not operate the instrument around the child or let the child operate it by himself, so as to avoid eye injury.
- ◆ Do not try to change the performance of this instrument, which may cause serious laser radiation damage.
- ◆ Do not repair or disassemble this instrument. Non-professional maintenance may cause serious laser radiation.

VII. Warranty Terms

The products of Shenzhen Xaori Technology Co., Ltd. are subject to limited warranty within the warranty period. If this instrument is damaged by non-human factors, it will be guaranteed within one year. If the equipment (including components) fails or is damaged under the following circumstances, it will not be covered by the limited warranty (Although the product is within the warranty period), our

company does not undertake the obligation of free warranty:

1. Equipment and components have exceeded the warranty period;
2. Equipment (including components) failure or damage caused by customers' incorrect installation, storage and use as required;
3. Equipment (including components) failure or damage caused by disassembly of institutions or personnel not authorized by Shenzhen Xiaorui Technology Co., Ltd.;
4. Equipment (including components) failure or damage caused by unexpected factors or man-made reasons (including operation errors, scratches, handling, bumping, improper input of voltage and current, etc.);
5. Product failure or damage caused by natural disasters and other force majeure (such as earthquake, fire, etc.).

VIII. Disclaimer

Before purchasing and using LR-50M laser displacement sensor, any customer should carefully read the relevant instructions of this series of products, and he will bear the consequences if he does not follow the instructions. Users don't have to choose LR-50M laser displacement sensor. Once used, it will be regarded as approval of all contents of this statement.

1:www.xaori.net

2:Aalibab:<https://xaori.en.alibaba.com/?spm=a2700.7756200.0.0.7c9871d2r1CwZl>

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