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› Bolisila LR-XN10 Micro Measurement Displacement Sensor User Manual

Bolisila LR-XN10

Bolisila LR-XN10 Micro Measurement Displacement Sensor User Manual

Model: LR-XN10

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of the Bolisila LR-XN10 Micro Measurement Displacement Sensor. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper functionality and to prevent damage to the device or injury to personnel. Keep this manual for future reference.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent electric shock, fire, or damage to the product.

- Ensure the power supply voltage matches the sensor's specifications.
- Do not disassemble, modify, or repair the sensor. Contact qualified service personnel for assistance.
- Avoid exposing the sensor to excessive moisture, dust, or corrosive environments.
- Handle the sensor with care to prevent physical damage.
- Always disconnect power before performing any installation, wiring, or maintenance procedures.

3. PRODUCT OVERVIEW

The Bolisila LR-XN10 is a compact micro measurement displacement sensor designed for high-precision applications in industrial automation and intelligent production management. It offers a wide range of measurement distances and is easy to install and calibrate.

Key Features:

- Type: Programmable Logic Control Product
- Compact size for easy integration.
- High precision measurement capabilities.
- Suitable for various industrial automation tasks.

Components:

The sensor unit typically includes the main sensing head, a connecting cable, and a control unit for configuration and display.



Figure 3.1: Bolisila LR-XN10 Sensor with integrated cable and control unit.



Figure 3.2: Bolisila LR-XN10 Sensor as received in its protective packaging.

4. SETUP

Follow these steps for proper installation of the LR-XN10 sensor.

4.1 Mounting the Sensor

1. Select a stable mounting location free from excessive vibration or temperature fluctuations.
2. Securely fasten the sensor head using appropriate mounting hardware (not included). Ensure the sensing surface is clear and unobstructed.

4.2 Wiring Connections

Refer to the wiring diagram provided with your specific sensor model for detailed connection instructions. General guidelines are as follows:

- Connect the power supply wires (typically red for +V, black for 0V) to a stable DC power source within the specified voltage range.

- Connect the output signal wires (e.g., white for analog output, blue for digital output) to your control system (PLC, microcontroller, etc.).
- Ensure all connections are secure and insulated to prevent short circuits.

4.3 Initial Power-Up

1. After all connections are made, apply power to the sensor.
2. Observe the indicator lights on the control unit (if present) to confirm power and operational status.

5. OPERATING INSTRUCTIONS

The LR-XN10 sensor is designed for continuous measurement. Specific operation details may vary based on your application and integration with a control system.

5.1 Calibration

The sensor may require initial calibration to establish reference points for displacement measurement. Consult your control system's documentation for integrating sensor output with calibration routines. The sensor is designed for easy calibration.

5.2 Measurement

Once calibrated, the sensor continuously outputs displacement data. This data can be read and processed by your connected PLC or control system for monitoring, control, or data logging purposes.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your sensor.

- **Cleaning:** Gently wipe the sensor's surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check cables and connections for signs of wear or damage. Ensure mounting is secure.
- **Environment:** Maintain the operating environment within specified temperature and humidity ranges.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Sensor not powering on	No power supply; incorrect wiring; faulty power supply	Check power connections; verify power supply voltage; test power supply.
Inaccurate readings	Improper calibration; environmental interference; sensor damage	Recalibrate the sensor; check for sources of interference; inspect sensor for damage.
No output signal	Incorrect wiring; faulty control system input; sensor malfunction	Verify output wiring; check control system input; contact support if sensor is suspected faulty.

8. SPECIFICATIONS

Technical specifications for the Bolisila LR-XN10 Micro Measurement Displacement Sensor.

- **Model:** LR-XN10

- **Type:** Programmable Logic Control Product
- **Manufacturer:** Bolisila
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches
- **Item Weight:** 3.53 ounces
- **ASIN:** B0D7SFWXWF
- **First Available:** June 22, 2024

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact your vendor. Keep your purchase receipt as proof of purchase.

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