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› Bolisila /

› Bolisila LR24A-TP Damper Actuator Instruction Manual

Bolisila LR24A-TP

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Model: LR24A-TP

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Bolisila LR24A-TP Damper Actuator. The LR24A-TP is an electric valve actuator designed for precise control of damper positioning and airflow regulation, ensuring optimal performance and energy savings in various applications. Please read these instructions thoroughly before installation and use.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Disconnect power before installation or servicing.

- Ensure all electrical connections are made by a qualified electrician and comply with local codes and regulations.
- Do not operate the actuator if it appears damaged.
- Keep hands and tools clear of moving parts during operation.
- This device is intended for industrial and scientific applications. Use only as specified in this manual.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package.

- 1 x Bolisila LR24A-TP Damper Actuator
- Mounting hardware (screws, brackets, if applicable)
- Instruction Manual (this document)



Image 3.1: Bolisila LR24A-TP Damper Actuator. This image displays the compact design of the actuator, highlighting its robust casing and connection terminals, ready for installation.

4. SETUP AND INSTALLATION

The LR24A-TP actuator is designed for easy installation. Follow these steps carefully:

1. **Mounting:** Securely attach the actuator to the damper shaft or ball valve using the provided mounting hardware. Ensure the actuator is properly aligned and fastened to prevent slippage or damage during operation.
2. **Mechanical Connection:** Connect the actuator's drive shaft to the damper or valve mechanism. Verify that the mechanical connection allows for the full range of motion required for the application.
3. **Electrical Wiring:** Refer to the wiring diagram provided with your specific unit (not included in this general manual) for correct electrical connections. Ensure power is disconnected before wiring. Connect the power supply and control signals to the appropriate terminals. Double-check all connections for security and correct polarity.
4. **Initial Power-Up:** Once all connections are secure, restore power. Observe the actuator's initial movement to confirm proper function and direction.

5. OPERATING INSTRUCTIONS

The Bolisila LR24A-TP Damper Actuator operates by receiving control signals to precisely adjust the position of a connected damper or ball valve. Its adjustable torque allows for fine-tuned control of airflow or fluid regulation.

- **Control Input:** The actuator typically responds to standard control signals (e.g., 0-10V, 4-20mA, or on/off signals, depending on the specific model variant). Consult your system's control documentation for signal compatibility.
- **Positioning:** The actuator will move to the commanded position based on the input signal. It is designed to hold its position accurately.
- **Manual Override (if applicable):** Some models may include a manual override feature. Refer to your specific unit's documentation for instructions on engaging and disengaging manual control.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your LR24A-TP Damper Actuator.

- **Inspection:** Periodically inspect the actuator for any signs of physical damage, loose connections, or excessive wear.
- **Cleaning:** Keep the exterior of the actuator clean and free from dust, dirt, and debris. Use a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connection Check:** Ensure all electrical and mechanical connections remain tight and secure.
- **Lubrication:** The actuator is generally maintenance-free regarding internal lubrication. Do not attempt to lubricate internal components unless specifically instructed by the manufacturer.

7. TROUBLESHOOTING

If you encounter issues with your LR24A-TP Damper Actuator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Actuator does not move	No power supply; Incorrect wiring; Faulty control signal	Check power connections; Verify wiring against diagram; Test control signal source
Actuator moves incorrectly or erratically	Incorrect control signal; Mechanical obstruction; Damaged internal components	Verify control signal range and type; Check for obstructions in damper/valve path; Contact support if internal damage is suspected
Actuator makes unusual noises	Mechanical binding; Worn gears; Overload	Inspect mechanical connection for binding; Reduce load if possible; Contact support for inspection

If troubleshooting steps do not resolve the issue, contact Bolisila customer support for further assistance.

8. SPECIFICATIONS

The following are general specifications for the Bolisila LR24A-TP Damper Actuator. Specific performance may vary slightly.

- **Model:** LR24A-TP
- **Torque:** 5Nm (Newton-meters)

- **Item Weight:** 4.41 pounds
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches
- **Assembly Required:** No
- **Number of Pieces:** 1
- **Manufacturer:** Bolisila

9. WARRANTY AND SUPPORT

Bolisila products are manufactured to high-quality standards. For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Bolisila website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, please contact Bolisila customer service through their official channels.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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