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› Bolisila LS-S11/LA Limit Switch User Manual

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Model: LS-S11/LA

1. INTRODUCTION

Thank you for choosing the Bolisila LS-S11/LA Limit Switch. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your limit switch. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always disconnect power before installation, maintenance, or troubleshooting.

- Ensure all wiring is performed by a qualified electrician in accordance with local and national electrical codes.
- Do not exceed the specified voltage and current ratings of the switch.
- Protect the switch from excessive moisture, dust, and corrosive environments unless specifically rated for such conditions.
- Verify proper grounding to prevent electrical hazards.

3. PRODUCT OVERVIEW

The Bolisila LS-S11/LA is a robust limit switch designed for industrial applications. It features a roller lever actuator and provides both Normally Open (NO) and Normally Closed (NC) contacts for versatile control.



Figure 1: Side view of the Bolisila LS-S11/LA Limit Switch, showing the roller lever in an extended position. This view highlights the robust construction and the roller mechanism for actuation.

Key Features:

- **Rugged Aluminum Alloy Shell:** Provides durability and protection in harsh industrial environments.

- **Good Electric Conductivity:** Ensures reliable electrical connections.
- **Nonslip Texture Design:** Enhances grip and stability during installation or adjustment.
- **Versatile Application:** Suitable for use in textile equipment, welding devices, lathes, grinders, and other machinery requiring position sensing.



Figure 2: Another side view of the Bolisila LS-S11/LA Limit Switch, illustrating the main body and potential mounting points. This perspective shows the compact

4. SETUP AND INSTALLATION

Proper installation is crucial for the reliable operation of the limit switch.

4.1 Mounting:

1. Select a stable mounting surface that can withstand the operational forces and vibrations.
2. Position the switch so that the roller lever can be actuated by the moving part of the machinery without excessive force or overtravel.
3. Secure the switch using appropriate fasteners through the designated mounting holes. Ensure it is firmly attached to prevent movement during operation.

4.2 Wiring:

The LS-S11/LA limit switch typically provides both Normally Open (NO) and Normally Closed (NC) contacts. Refer to the wiring diagram provided with your specific unit or on the product label for exact terminal identification.

1. **Disconnect all power** to the circuit before making any electrical connections.
2. Identify the Common (COM), Normally Open (NO), and Normally Closed (NC) terminals.
3. Connect the power supply to the COM terminal.
4. For a circuit that activates when the switch is pressed (actuated), connect your load to the NO terminal.
5. For a circuit that deactivates when the switch is pressed (actuated), connect your load to the NC terminal.
6. Ensure all wire connections are secure and properly insulated.
7. After wiring, verify all connections before restoring power.

5. OPERATING INSTRUCTIONS

The Bolisila LS-S11/LA Limit Switch operates by detecting the physical presence or position of a moving object. When the roller lever is actuated by contact with the object, the internal contacts change state.

- **Normally Open (NO) Contact:** This contact is open (no current flow) when the switch is in its normal, unactuated state. It closes (allows current flow) when the roller lever is pressed.
- **Normally Closed (NC) Contact:** This contact is closed (allows current flow) when the switch is in its normal, unactuated state. It opens (breaks current flow) when the roller lever is pressed.

Ensure that the moving part of your machinery makes consistent and sufficient contact with the roller lever to reliably actuate the switch without causing damage due to excessive force or overtravel.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and reliability of your limit switch.

- **Inspection:** Periodically inspect the switch for any signs of physical damage, loose connections, or excessive wear on the roller lever.
- **Cleaning:** Keep the switch free from excessive dust, dirt, and debris. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or solvents.
- **Lubrication:** The roller mechanism is typically self-lubricating or designed for minimal maintenance. Avoid applying external lubricants unless specified by the manufacturer.
- **Environmental Protection:** Ensure that the switch's environmental protection (e.g., seals) remains intact, especially if

operating in dusty or moist conditions.

7. TROUBLESHOOTING

If you encounter issues with your Bolisila LS-S11/LA Limit Switch, consider the following:

- **Switch Not Actuating:**
 - Check if the moving object is making proper contact with the roller lever.
 - Ensure the switch is securely mounted and not misaligned.
- **No Signal/Intermittent Signal:**
 - Verify all wiring connections are secure and free from corrosion.
 - Check for continuity across the contacts using a multimeter when the switch is actuated and unactuated.
 - Ensure the power supply to the circuit is stable and within the switch's rated voltage.
- **Physical Damage:**
 - Inspect the switch housing and roller lever for cracks, bends, or other damage. Replace the switch if significant damage is found.

If problems persist after performing these checks, consult a qualified technician or contact customer support.

8. SPECIFICATIONS

Attribute	Value
Model Number	LS-S11/LA
Brand	Bolisila
Contact Type	NC NO (Normally Closed, Normally Open)
Actuator Type	Roller Lever
Shell Material	Aluminum Alloy
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.1 pounds

9. WARRANTY AND SUPPORT

Bolisila products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or inquiries, please reach out to Bolisila customer service through the contact information provided on their official website or through your purchase platform.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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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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