

[Manuals.plus](#) /

› [LABDIP](#) /

› LABDIP LXW5-11G1 Micro Switch User Manual

## LABDIP LXW5-11G1

# LABDIP LXW5-11G1 Micro Switch User Manual

Model: LXW5-11G1

Brand: LABDIP

## 1. PRODUCT OVERVIEW

---

The LABDIP LXW5-11G1 is a SPDT (Single Pole Double Throw) momentary roller hinge arm button travel limit micro switch. It is designed for industrial control applications to monitor and indicate when the travel limits of a mechanical part have been exceeded. This switch operates with minimal physical force and is suitable for use in various electronic equipment, including refrigerator interlock systems.

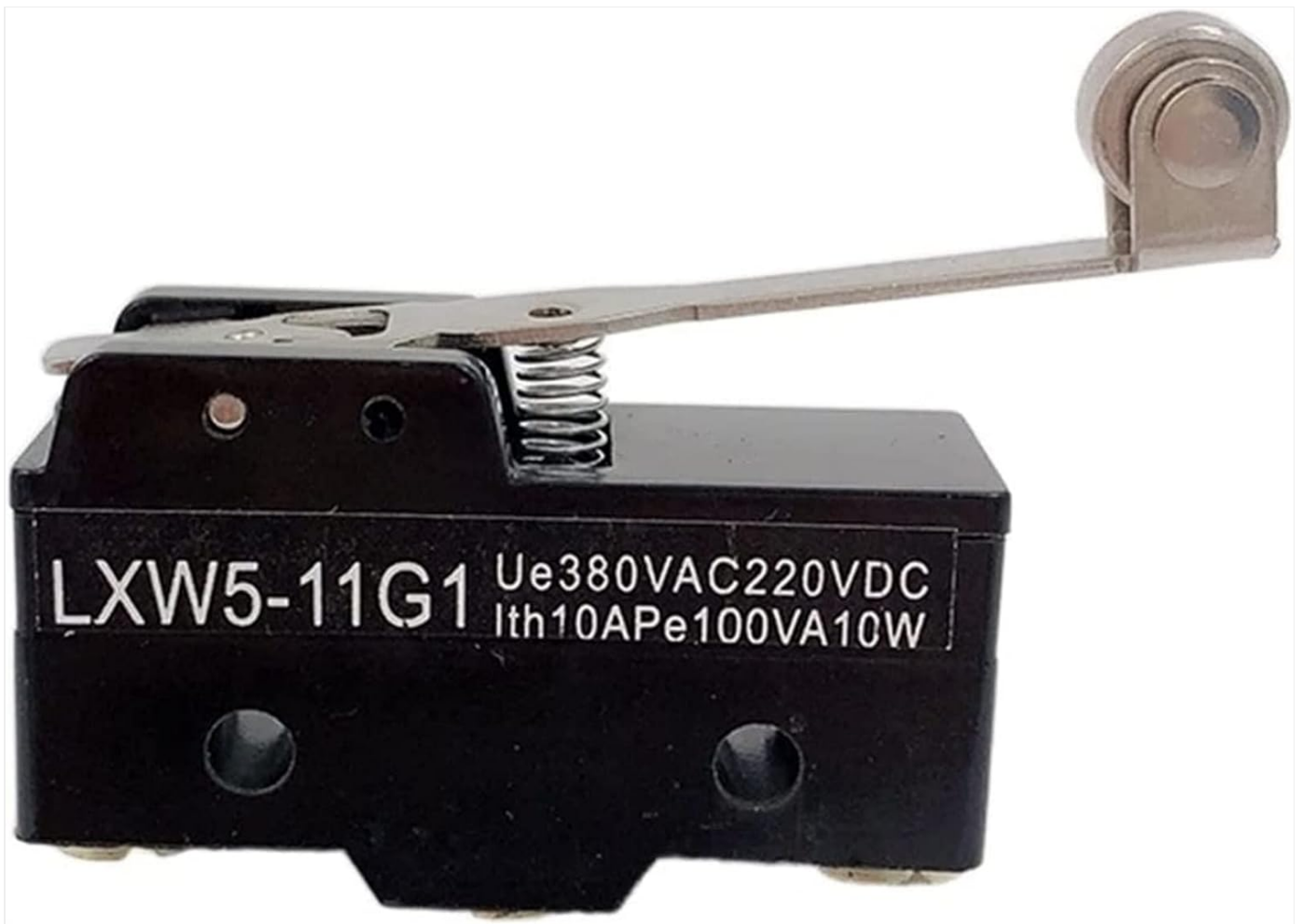


Figure 1: Front view of the LABDIP LXW5-11G1 Micro Switch, showing the main body and the roller hinge arm.

## 2. KEY FEATURES

---

- **Micro Switches:** Compact design for precise control.
- **Easy Installation:** Designed for straightforward setup and long operational life.
- **Low Actuation Force:** Can be operated with minimal physical force.
- **Industrial Control:** Primarily used in industrial applications for monitoring travel limits.
- **Versatile Application:** Suitable for electronic equipment and interlock switches (e.g., refrigerators).
- **SPDT Configuration:** Single Pole Double Throw terminal for versatile wiring.
- **Roller Hinge Arm:** Provides smooth and consistent actuation.

## 3. SPECIFICATIONS

---

| Attribute      | Value     |
|----------------|-----------|
| Model          | LXW5-11G1 |
| Brand          | LABDIP    |
| Operation Mode | Automatic |
| Connector Type | Screws    |
| Terminal Type  | SPDT      |

|               |   |
|---------------|---|
| Mounting Type | DIN Rail Mount (typical, verify specific application) |
| Color         | Onecolor (Black body)                                 |
| Unit Count    | 1.0 Count   |
| Item Weight   | 0.035 ounces  |

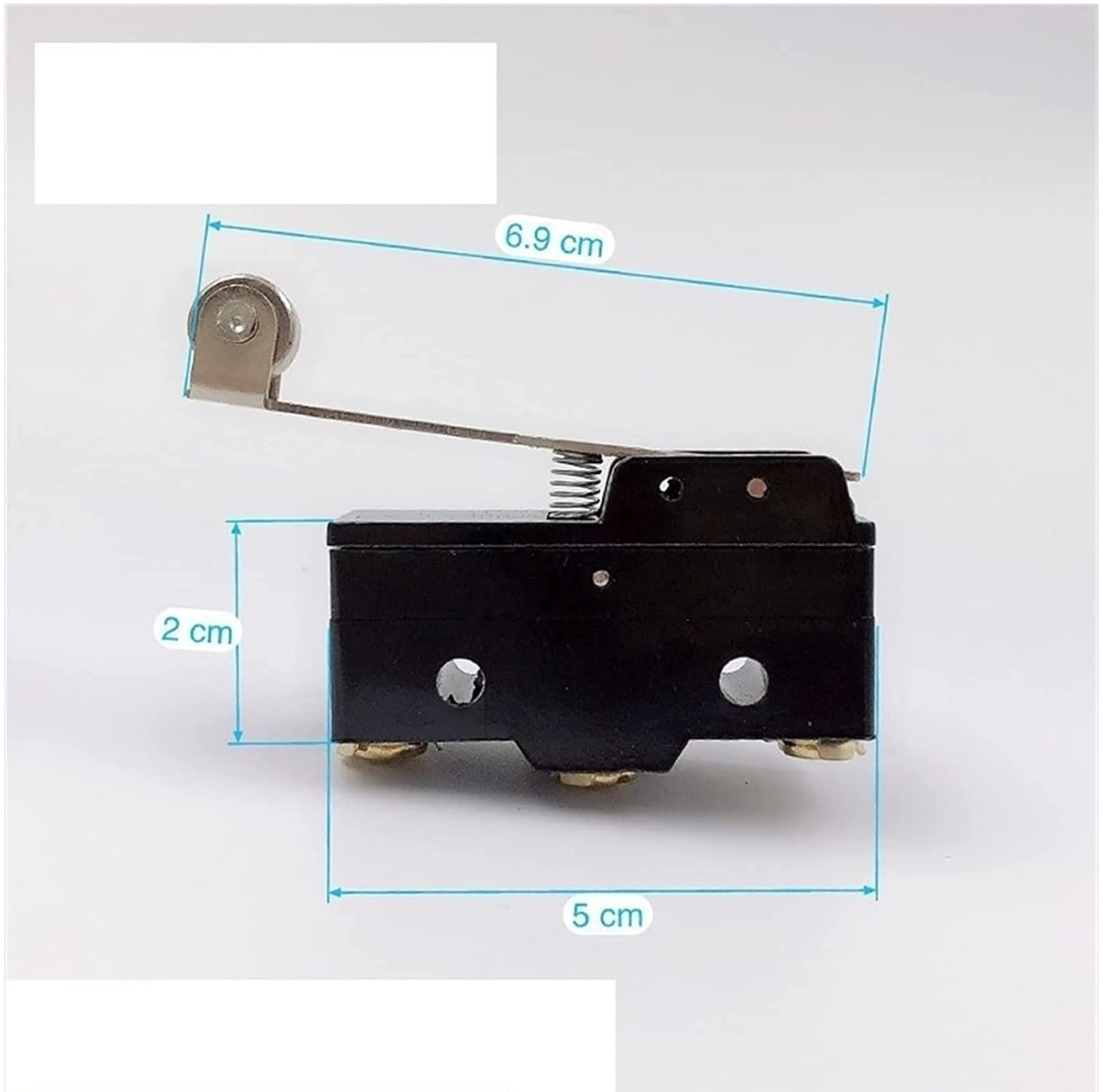


Figure 2: Side view of the micro switch illustrating approximate dimensions for installation planning.

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the reliable operation of the LXW5-11G1 micro switch. Always ensure power is disconnected before beginning any installation work.

### 4.1 Safety Precautions

- Disconnect all power to the circuit before installation or maintenance.
- Ensure wiring is performed by qualified personnel in accordance with local electrical codes.
- Do not exceed the specified voltage (AC380V, DC220V) and current ratings.
- Avoid installing in environments with excessive moisture, dust, or corrosive gases.

## 4.2 Mounting

The switch typically mounts using screws through the designated holes on its body. Ensure the mounting surface is stable and flat to prevent misalignment of the roller arm.

1. Position the micro switch in the desired location where the mechanical part's travel limit needs to be detected.
2. Mark the drilling points using the switch's mounting holes as a template.
3. Drill appropriate pilot holes if necessary.
4. Secure the switch using suitable screws, ensuring it is firmly attached but not overtightened to avoid damaging the housing.



**Figure 3:** View of the micro switch showing the screw terminals for electrical connections.

## 4.3 Wiring

The LXW5-11G1 is a SPDT switch, meaning it has a Common (COM), Normally Open (NO), and Normally Closed (NC) terminal. Identify these terminals on the switch body.

- **COM (Common):** This is the input terminal for the circuit.
- **NO (Normally Open):** This terminal is open (no connection) to COM when the switch is not actuated, and closes (connects) to COM when actuated.
- **NC (Normally Closed):** This terminal is closed (connected) to COM when the switch is not actuated, and opens (disconnects) from COM when actuated.

Connect your circuit wires to the appropriate terminals using the screw connectors. Ensure all connections are secure and insulated.

## 5. OPERATING PRINCIPLES

---

The LXW5-11G1 operates as a momentary switch. When the roller hinge arm is depressed by a moving mechanical part, the internal contacts switch state. Once the pressure is removed, the arm returns to its original position, and the contacts revert to their normal state (NO open, NC closed).

- **Unactuated State:** The roller arm is extended. The Common (COM) terminal is connected to the Normally Closed (NC) terminal. The Normally Open (NO) terminal is disconnected from COM.
- **Actuated State:** The roller arm is depressed. The Common (COM) terminal disconnects from the Normally Closed (NC) terminal and connects to the Normally Open (NO) terminal.



**Figure 4:** Side view of the micro switch, illustrating the roller hinge arm mechanism.

## 6. MAINTENANCE

---

The LXW5-11G1 micro switch is designed for long-term reliability with minimal maintenance. However, periodic checks can extend its lifespan and ensure consistent performance.

- **Cleaning:** Keep the switch free from dust, dirt, and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the roller hinge arm for any signs of wear or damage. Ensure it moves freely without obstruction.
- **Connections:** Verify that all electrical connections remain secure and free from corrosion.
- **Mounting:** Check that the switch remains firmly mounted and that mounting screws are tight.

## 7. TROUBLESHOOTING

---

| Problem                     | Possible Cause   | Solution  |
|-----------------------------|--|---|
| Switch not actuating        | Roller arm obstructed or damaged; insufficient mechanical force. | Clear obstruction; inspect arm for damage and replace if necessary; ensure mechanical part applies sufficient force.    |
| No electrical signal change | Incorrect wiring; loose connections; switch failure.             | Verify wiring against diagram; tighten screw terminals; test switch continuity with a multimeter and replace if faulty. |
| Intermittent operation      | Loose connections; worn contacts; excessive vibration.           | Secure all connections; consider replacing the switch if contacts are worn; reduce vibration if possible.               |

## 8. WARRANTY AND SUPPORT

---

For specific warranty information and technical support regarding your LABDIP LXW5-11G1 Micro Switch, please refer to the product packaging or contact LABDIP customer service directly. Keep your purchase receipt for warranty claims.

**LABDIP Customer Support:** Please visit the official LABDIP website or contact your retailer for support contact details.