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› LEFOO LF32 Air Differential Pressure Switch User Manual (20-200Pa)

LEFOO LF32-02 (20-200Pa)

LEFOO LF32 Air Differential Pressure Switch User Manual

Model: LF32-02 (20-200Pa)

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the LEFOO LF32-02 Air Differential Pressure Switch. Please read this manual thoroughly before using the device to ensure safe and efficient operation. This device is designed for measuring differential pressure in air and non-flammable, non-hazardous gases.

2. PRODUCT OVERVIEW

The LEFOO LF32-02 is a mechanical differential pressure switch engineered for high accuracy in sensing small differential pressures. It is commonly used in HVAC systems, aerospace, electronic processing, and pharmaceutical applications. Its robust design ensures stable and durable performance.



Figure 2.1: Front view of the LEFOO LF32 Air Differential Pressure Switch.

3. COMPONENTS INCLUDED

The standard package for the LEFOO LF32-02 includes the following items:

- 1 x Differential Pressure Switch (LF32-02)
- 1 x Tubing (clear, flexible)
- 2 x Pressure Conduits
- 5 x Pressure Conduit Fixing Screws
- 3 x Pressure Switch Matching Screws



Figure 3.1: Contents of the LEFOO LF32-02 package, including the switch, tubing, conduits, and screws.

4. SPECIFICATIONS

Parameter	Value
Item Type	Pressure Differential Switch
Model	LF32-02
Material	ABS
Measuring Medium	Air, non-flammable, non-hazardous gas
Product Type	Mechanical
Interface Thread	6.0mm OD hose
Measuring Range	20-200Pa
Sensing Differential Pressure	10Pa

Parameter	Value
Error	$\leq \pm 15\%$
Medium Temperature Range	-20°C to 85°C
Contact Material	Copper
Installation Method	Vertical installation
Contact Method	SPDT (Single Pole Double Throw)
Package Dimensions	3.93 x 3.93 x 3.93 inches
Weight	4.8 ounces
Manufacturer	LEFOO

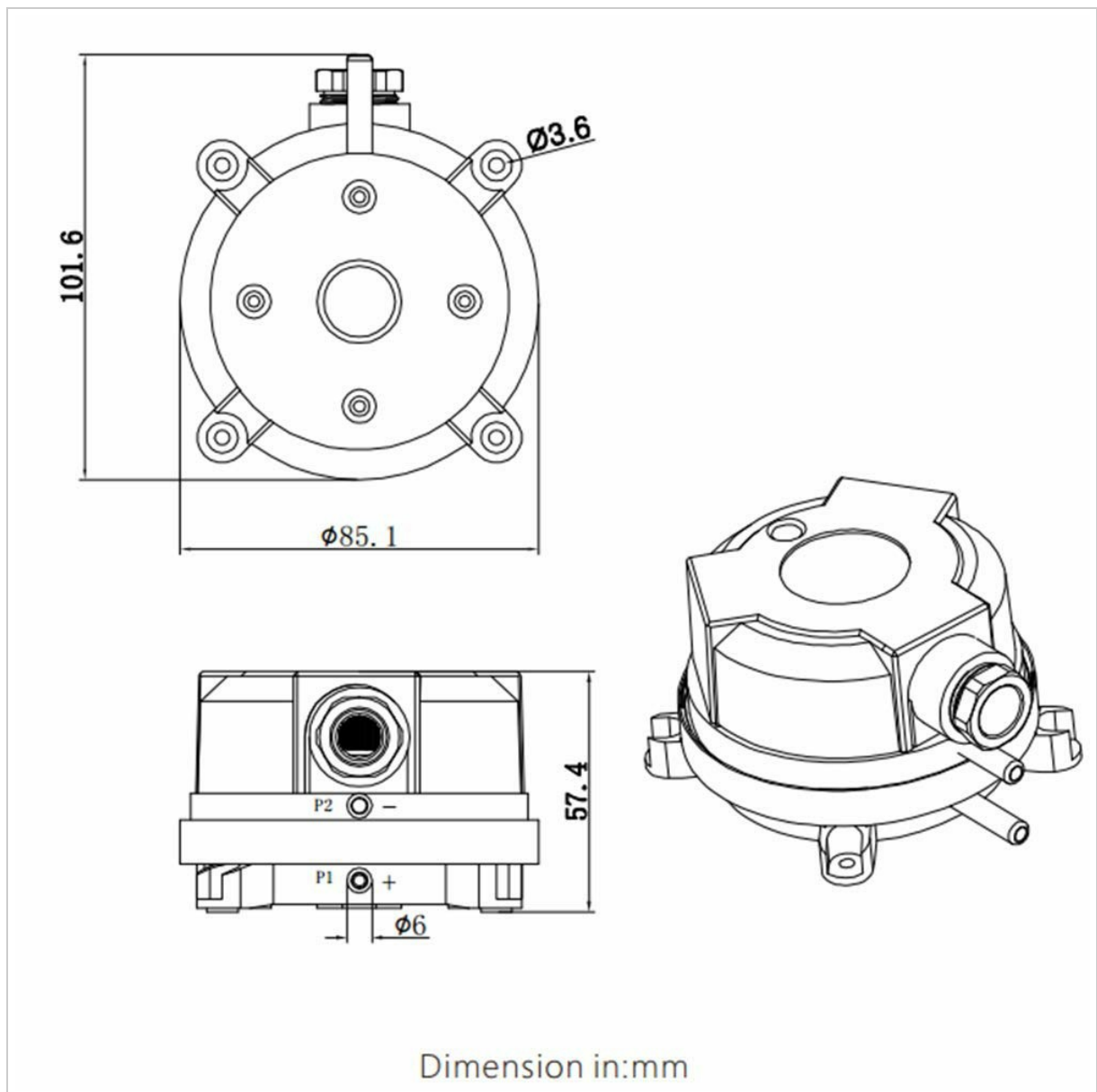


Figure 4.1: Dimensional drawing of the LEFOO LF32-02 switch (dimensions in mm).

5. SAFETY INFORMATION

Observe the following safety precautions during installation, operation, and maintenance:

- Ensure the power supply is disconnected before any installation or wiring procedures.
- Only use the switch with specified media: air, non-flammable, and non-hazardous gases.
- Do not exceed the specified measuring range or temperature limits.
- Installation should be performed by qualified personnel in accordance with local electrical and safety codes.
- Protect the device from physical impact and extreme environmental conditions.

6. SETUP AND INSTALLATION

The LEFOO LF32-02 is designed for vertical installation. Follow these steps for proper setup:

1. **Mounting:** Securely mount the differential pressure switch in a vertical orientation using the provided screws. Ensure the mounting surface is stable and free from vibrations.
2. **Pressure Connection:** Connect the 6.0mm OD hose to the interface threads on the switch. Use the provided pressure conduits if necessary to establish the connection to the pressure source. Ensure all connections are airtight to prevent leaks.
3. **Electrical Wiring:** The switch features SPDT contacts. Wire the switch according to your system's electrical diagram. Ensure all electrical connections are secure and insulated.



Figure 6.1: The differential pressure switch with tubing connected to its ports.

7. OPERATION

The LEFOO LF32-02 is an adjustable differential pressure switch. The set point can be adjusted to trigger the switch at a desired pressure differential within its 20-200Pa range.

1. **Adjustment:** The switch features an adjustment dial, typically located under a clear cover. Carefully remove the cover if present.
2. **Set Point Setting:** Rotate the adjustment dial to set the desired differential pressure value. Refer to the markings on the dial for accurate setting. The switch will activate when the measured differential pressure reaches this set point.
3. **Verification:** After setting, verify the switch's operation by applying the expected differential pressure and observing the system response.



Figure 7.1: Top view of the switch, illustrating the adjustment dial for setting the differential pressure.

8. MAINTENANCE

The LEFOO LF32-02 is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity:

- **Visual Inspection:** Periodically inspect the switch and its connections for any signs of damage, wear, or leaks.
- **Connection Integrity:** Ensure all hose and electrical connections remain secure.
- **Cleaning:** Keep the exterior of the switch clean and free from dust or debris. Do not use harsh chemicals for cleaning.
- **Recalibration:** If accuracy is critical, consider periodic recalibration by a qualified technician.

9. TROUBLESHOOTING

If you encounter issues with your LEFOO LF32-02 differential pressure switch, consider the following common troubleshooting steps:

- **Switch Not Activating:**

- Check if the differential pressure applied is within the switch's measuring range (20-200Pa) and meets the set point.
 - Verify that the pressure connections are not leaking.
 - Ensure the electrical wiring is correct and there is power to the circuit.
 - Confirm the set point on the adjustment dial is correctly configured.
- **Erratic Operation:**
 - Inspect for any blockages in the pressure lines or ports.
 - Check for vibrations or external factors that might affect the switch's mechanical components.
 - **No Electrical Output:**
 - Test the continuity of the electrical connections.
 - Ensure the switch is receiving the correct differential pressure to trigger its contacts.

If problems persist after performing these checks, contact customer support for further assistance.

10. WARRANTY AND SUPPORT

LEFOO products come with a one-year warranty service. If you encounter any issues or require technical assistance, please do not hesitate to contact us. Your satisfaction is our priority.