

LEFOO LF10-4H-1-NPT1/4-95-125

LEFOO Air Compressor Pressure Switch

MODEL: LF10-4H-1-NPT1/4-95-125

1. Introduction

The LEFOO LF10-4H-1-NPT1/4-95-125 is a high-quality air compressor pressure switch designed for electric air compressors. This control valve automatically regulates the air pressure within your compressor's tank, ensuring it operates within the specified pressure range of 95-125 PSI. It features a robust design with four NPT ports and an integrated unloader valve for efficient and reliable performance.

2. Safety Information

WARNING: Improper installation or use of this pressure switch can result in serious injury or property damage. Always disconnect power to the compressor before performing any installation, maintenance, or troubleshooting. Work should only be performed by qualified personnel familiar with electrical and pneumatic systems.

- Ensure the compressor is unplugged and depressurized before beginning any work.
- Verify that the voltage rating of the switch (120 Volts) matches your compressor's electrical supply.
- All electrical connections must be secure and properly insulated to prevent short circuits and electrical shock.
- Use appropriate thread sealant on all NPT connections to prevent air leaks.
- Do not exceed the maximum pressure rating of 150 PSI for this switch.

3. Product Overview

The LEFOO LF10-4H-1-NPT1/4-95-125 pressure switch is a compact, durable unit designed for precise pressure control. Key features include:

- **Pressure Range:** Factory set to 95-125 PSI.
- **Ports:** Four 1/4" female NPT ports located on the bottom for versatile connections. One port is typically for the main air inlet from the tank, while the others can be used for relief valves, gauges, or additional air outlets.
- **Unloader Valve:** A 1/4" compression unloader valve is integrated on the side, designed to release air pressure from the compressor head when the motor stops, allowing for easier restarts. If not required, it does not need to be connected.
- **On/Off Lever:** A convenient lever for manual control of the compressor's power.



Figure 1: Main view of the LEFOO Air Compressor Pressure Switch.



Figure 2: Bottom view illustrating the four 1/4" NPT ports for air connections.



Figure 3: Side view displaying the integrated On/Off lever.

4. Setup and Installation

Installation of the pressure switch requires careful attention to both electrical and pneumatic connections. It is recommended that installation be performed by a qualified technician.

1. **Disconnect Power:** Ensure the air compressor is completely disconnected from its power source and the air tank is fully depressurized.
2. **Mounting:** Securely mount the pressure switch to the compressor's manifold or a stable surface using appropriate hardware.
3. **Pneumatic Connections:**

- Connect the main air inlet from the compressor tank to one of the 1/4" female NPT ports on the bottom of the switch.
- Utilize the remaining three 1/4" female NPT ports for accessories such as a pressure gauge, safety relief valve, or additional air outlets as needed. Apply thread sealant to all connections.
- Connect the 1/4" compression unloader valve to the compressor's unloader line. If your compressor does not utilize an unloader line, this port can be left unconnected.

4. Electrical Connections:

- Refer to the wiring diagram (Figure 4) for correct electrical connections.
- Connect the power supply lines to the designated 'LINE' terminals and the compressor motor lines to the 'MOTOR' terminals.
- Ensure all wiring is properly sized for the compressor's current draw and secured with cord restraints to prevent accidental disconnections.
- Confirm that the ground wire is correctly connected.



Figure 4: Wiring diagram and pressure adjustment points. Consult this diagram for electrical connections and pressure calibration.

5. Operating Instructions

Once installed, operating the LEFOO pressure switch is straightforward:

1. **Power On:** After all connections are secure and verified, plug in the air compressor.
2. **Activate Switch:** Move the On/Off lever to the 'ON' position. The compressor motor should start and begin to build pressure.
3. **Automatic Operation:** The switch is factory-set to turn off the compressor when the tank pressure reaches approximately 125 PSI and turn it back on when the pressure drops to approximately 95 PSI.
4. **Pressure Adjustment (Advanced):** If adjustment is necessary, refer to Figure 4. There are typically two adjustment screws: one for the cut-out (upper) pressure and one for the differential (cut-in) pressure. Turning the screws clockwise generally increases pressure. *Exercise caution and make small adjustments, monitoring pressure with a reliable gauge.*
5. **Power Off:** To stop the compressor, move the On/Off lever to the 'OFF' position. The unloader valve will typically release residual pressure from the compressor head.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your pressure switch:

- **Periodic Inspection:** Regularly inspect the switch for any signs of wear, damage, or corrosion.
- **Check for Leaks:** Periodically check all pneumatic connections for air leaks using soapy water. Tighten connections

as necessary.

- **Electrical Connections:** Ensure all electrical connections remain tight and free from corrosion.
- **Cleanliness:** Keep the switch free from dust, dirt, and moisture.

7. Troubleshooting

If you encounter issues with your pressure switch, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Compressor does not start.	No power; faulty wiring; switch in 'OFF' position; motor overload.	Check power supply; verify wiring connections; ensure lever is 'ON'; reset motor overload.
Compressor does not shut off at desired pressure.	Pressure setting too high; faulty switch; air leak.	Adjust cut-out pressure (refer to Figure 4); check for air leaks; replace switch if faulty.
Compressor cycles too frequently.	Air leak in system; differential setting too narrow.	Locate and repair air leaks; adjust differential pressure (refer to Figure 4).
Unloader valve not functioning.	Blocked unloader line; faulty unloader valve.	Clear unloader line; inspect or replace unloader valve.

8. Specifications

Attribute	Detail
Brand	LEFOO
Model Name	LF10-4H-1-NPT1/4-95-125
Voltage	120 Volts
Max Pressure	150 PSI
Min ON Pressure	35 PSI (Adjustable)
Differential Pressure	30-40 PSI (Adjustable)
Tank Connection	1/4" Female NPT
Additional Ports	3 x 1/4" Female NPT
Unloader Valve Connection	1/4" Compression
Material	Metal
Color	Black
Item Weight	0.85 Pounds (approx. 13.6 ounces)
Product Dimensions (L x W x H)	3.94" x 3.54" x 3.94"



Figure 5: Product dimensions for the pressure switch.

9. Warranty and Support

For specific warranty information and technical support, please refer to the documentation provided with your purchase or contact LEFOO directly through their official website or authorized distributors. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: LEFOO

UPC: 703570490515, 700425107048

Part Number: LF10-4H-1-NPT1/4-95-125

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