

Aoleaby J400K-S147B

Aoleaby J400K-S147B Filter Differential Pressure Switch User Manual

Model: J400K-S147B

1. INTRODUCTION

The Aoleaby J400K-S147B is a robust differential pressure switch designed for precise monitoring of pressure variations in industrial environments. This manual provides essential information for the safe and effective installation, operation, and maintenance of the device, ensuring optimal performance and longevity.

2. PRODUCT OVERVIEW AND FEATURES

The J400K-S147B differential pressure switch is engineered for reliability and accuracy in critical applications. Its key features include:

- **Pressure Monitoring:** Designed to monitor pressure levels and activate an alarm or control circuit when a predefined pressure limit is reached.
- **High Sensitivity:** Exhibits high sensitivity to pressure changes in the measured medium, enabling rapid response and precise control of connected circuits.
- **Reliability and Stability:** Constructed for long-term stable operation, minimizing the risk of malfunction or false readings.
- **Versatile Application:** Suitable for a wide range of industrial automation systems, including hydraulic, pneumatic, and water supply systems.
- **User-Friendly Design:** Incorporates a handle to simplify the installation of exhaust valves and pressure gauges, enhancing operational convenience.



Figure 1: Aoleaby J400K-S147B Differential Pressure Switch with product label. This image displays the Aoleaby J400K-S147B differential pressure switch, highlighting the product label with key specifications such as P/N: J400K-S147B, Range: 3 to 30 psi / 0.2 to 2.1 bar, Proof: 300 psi / 20.7 bar, and MWP: 100 psi / 6.9 bar.

3. SAFETY INFORMATION

Adherence to safety guidelines is paramount for preventing injury and equipment damage. Please observe the following:

- Always disconnect power to the system before attempting any installation, maintenance, or inspection procedures.
- Ensure proper grounding of the device according to local electrical codes.
- Installation and servicing should only be performed by qualified personnel familiar with industrial control systems and pressure equipment.
- Verify that the operating pressure of the system does not exceed the Maximum Working Pressure (MWP) of the switch.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

4. SPECIFICATIONS

Parameter	Value
Part Number (P/N)	J400K-S147B
Pressure Range	3 to 30 psi / 0.2 to 2.1 bar
Proof Pressure	300 psi / 20.7 bar
Maximum Working Pressure (MWP)	100 psi / 6.9 bar
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	6.61 Pounds
Manufacturer	Aoleaby

5. SETUP AND INSTALLATION

Proper installation is crucial for the accurate and reliable operation of the differential pressure switch. Follow these general steps:

- Mounting:** Securely mount the pressure switch in a location that is easily accessible for inspection and maintenance, and protected from excessive vibration or extreme temperatures.
- Pressure Connections:** Connect the 'HIGH' and 'LOW' pressure ports to the respective points in your system where differential pressure is to be measured. Ensure all connections are tight and leak-free. The integrated handle simplifies the attachment of exhaust valves and pressure gauges.
- Electrical Wiring:** Connect the electrical terminals according to the system's wiring diagram. Ensure that the power supply matches the switch's requirements and that all wiring is properly insulated and grounded.
- System Integration:** Integrate the switch's output into your control system or alarm circuit.



Figure 2: Pressure switch showing 'HIGH' and 'LOW' ports. This image shows the Aoleaby J400K-S147B differential pressure switch partially unboxed, revealing the 'HIGH' and 'LOW' pressure connection ports, indicating its function in measuring pressure differences.



Figure 3: Top view of the pressure switch enclosure. A top-down view of the Aoleaby J400K-S147B differential pressure switch, illustrating the robust blue enclosure that protects the internal components.

6. OPERATION

Once installed and configured, the Aoleaby J400K-S147B operates automatically to monitor differential pressure. The switch continuously senses the pressure difference between its 'HIGH' and 'LOW' ports. When this differential pressure reaches the factory-set or user-adjusted threshold, the internal switch mechanism activates, changing the state of the electrical contacts. This change can then be used to trigger an alarm, shut down equipment, or initiate other control actions within your system.

7. MAINTENANCE

Regular maintenance ensures the continued accuracy and reliability of your differential pressure switch:

- **Periodic Inspection:** Visually inspect the switch and its connections regularly for any signs of damage, corrosion, or leaks.
- **Cleaning:** Keep the exterior of the switch clean and free from dust, dirt, and debris. Use a soft, dry cloth for

cleaning. Avoid using harsh chemicals or abrasive materials.

- **Connection Integrity:** Periodically check all pressure and electrical connections to ensure they remain secure.
- **Functional Test:** If possible and safe to do so, periodically test the switch's functionality by simulating a pressure condition that would trigger its activation.

8. TROUBLESHOOTING

Should you encounter issues with your J400K-S147B differential pressure switch, consider the following troubleshooting steps:

- **Switch Not Activating:**

- Verify that the actual differential pressure is within the switch's operating range and has reached the set point.
- Check electrical connections for continuity and proper wiring.
- Ensure the power supply to the switch is correct.

- **Erratic Readings/False Alarms:**

- Inspect pressure lines for blockages, kinks, or leaks.
- Check for excessive vibration at the mounting location.
- Ensure the process medium is compatible with the switch materials.

- **No Power to Switch:**

- Check the circuit breaker or fuse for the power supply.
- Confirm all power wiring is correctly connected.

If these steps do not resolve the issue, contact Aoleaby customer support or a qualified technician.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Aoleaby J400K-S147B Filter Differential Pressure Switch, please refer to the documentation provided at the time of purchase or contact Aoleaby customer service directly. Ensure you have your product model number (J400K-S147B) and purchase details available when seeking support.

ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question