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Potter / Amseco PS10-2

Potter PS10-2 Pressure Switch User Manual

Model: PS10-2 | Brand: Potter / Amseco

Setup Operating Maintenance Troubleshooting Specifications Warranty & Support

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Potter PS10-2 Pressure Switch. The PS10-2 is designed for reliable waterflow detection in various systems, featuring two sets of SPDT (Single-Pole Double-Throw) contacts for versatile electrical control. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

Setup and Installation

Proper installation is crucial for the reliable operation of the PS10-2 Pressure Switch. Ensure all local and national electrical codes are followed during installation.

Mounting

The PS10-2 is designed for panel mounting. Select a location that is easily accessible for inspection and maintenance, free from excessive vibration, and protected from extreme environmental conditions. The switch should be mounted securely using appropriate fasteners.



Figure 1: Front view of the Potter PS10-2 Pressure Switch. This image displays the main body of the switch, including the pressure inlet connection and the electrical housing where wiring connections are made. The robust die-cast material is visible.

Electrical Wiring

The PS10-2 features two sets of SPDT contacts. Refer to the wiring diagram provided with the product for specific connection details. Ensure the power supply matches the switch's operating voltage (125 Volts AC) and current rating (2 Amps). All wiring should be performed by a qualified electrician.

- **Power Connection:** Connect the main power supply to the designated terminals.
- **Signal Output:** Connect the SPDT contacts to the control panel or alarm system as required by your application.
- **Grounding:** Ensure the switch is properly grounded to prevent electrical hazards.

Pressure Connection

Connect the pressure inlet of the switch to the system where waterflow detection is required. Use appropriate fittings and sealants to ensure a leak-free connection. The switch is designed to operate within a specific pressure range (typically 4-15 psi for waterflow applications, as indicated by the product description).

Operating Instructions

The Potter PS10-2 Pressure Switch operates by detecting changes in water pressure within a system. When the pressure reaches a predefined threshold, the internal contacts switch state, providing an electrical signal.

Functionality

The switch is typically configured for "Normally Closed" operation, meaning the contacts are closed under normal system pressure and open when a pressure change (e.g., waterflow) is detected. The two sets of SPDT contacts allow for independent control of two separate circuits or for redundant signaling.

Adjusting Pressure Settings

If the switch has an adjustable pressure setting, refer to the specific instructions provided with the unit for calibration. Typically, a screw or knob allows for fine-tuning the activation pressure. Ensure the system is depressurized before making any adjustments.

Maintenance

Regular maintenance ensures the longevity and reliable performance of your PS10-2 Pressure Switch.

- **Periodic Inspection:** Visually inspect the switch and its connections annually for any signs of wear, corrosion, or damage.
- **Connection Integrity:** Check all electrical and pressure connections to ensure they are secure and free from leaks.
- **Cleaning:** Keep the exterior of the switch clean and free from dust and debris. Do not use harsh chemicals that could damage the housing.
- **Testing:** Periodically test the switch's functionality according to system requirements to confirm it activates at the correct pressure.

Troubleshooting

If you encounter issues with your PS10-2 Pressure Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Switch not activating	Incorrect pressure setting, clogged pressure inlet, faulty wiring, insufficient pressure change.	Verify pressure setting. Check for obstructions in the pressure line. Inspect wiring for loose connections or damage. Ensure adequate pressure change is occurring.
False alarms/intermittent activation	Pressure fluctuations, vibration, faulty switch.	Stabilize system pressure. Relocate switch to reduce vibration. Test switch functionality; replace if faulty.
No electrical signal output	Wiring error, power supply issue, damaged contacts.	Check all electrical connections. Verify power supply to the switch. If contacts are damaged, replace the switch.

If the problem persists after attempting these solutions, contact a qualified technician or Potter / Amseco customer support.

Specifications

The following are the technical specifications for the Potter PS10-2 Pressure Switch:

Feature	Detail
Model	PS10-2

Feature	Detail
Brand	Potter / Amseco
Operation Mode	Normally Closed
Current Rating	2 Amps
Operating Voltage	125 Volts (AC)
Contact Type	Normally Open (SPDT contacts)
Switch Type	Pressure Switch
Material	Die cast
Item Dimensions (L x W x H)	7.44 x 6.34 x 3.54 inches
Mounting Type	Panel Mount
International Protection Rating	IP54
Item Weight	14.56 ounces
Manufacturer	POTTER ELECTRIC SIGNAL MFG US

Warranty and Support

Warranty information for the Potter PS10-2 Pressure Switch is typically provided with the product packaging or can be obtained directly from the manufacturer, Potter / Amseco. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Potter / Amseco customer support. Contact details can usually be found on the manufacturer's official website or on the product packaging.

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