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› LIGHTEU® Seaflo Pressure Switch 41S SFDP1-045-040-41 Instruction Manual

LIGHTEU SFDP1-045-040-41

LIGHTEU® Seaflo Pressure Switch 41S SFDP1-045-040-41 Instruction Manual

Model: SFDP1-045-040-41

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your LIGHTEU® Seaflo Pressure Switch, model 41S SFDP1-045-040-41. Please read these instructions thoroughly before use and retain them for future reference.

SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in personal injury, property damage, or product malfunction.

- Always disconnect power before installing, servicing, or performing any maintenance on the pressure switch or associated pump.
- Ensure all electrical connections are made by a qualified professional and comply with local electrical codes.
- Do not exceed the maximum pressure rating of 40 PSI (2.8 Bar).
- This device is designed for use with water pumps. Do not use with flammable liquids or in explosive atmospheres.
- Keep children and unauthorized personnel away from the installation area.
- Regularly inspect the pressure switch and connections for signs of wear, damage, or leaks.

PRODUCT OVERVIEW

The LIGHTEU® Seaflo Pressure Switch is designed to automatically control the operation of a water pump based on system pressure. It activates the pump when pressure drops below a set point and deactivates it when pressure reaches the upper limit.



Image showing the LIGHTEU Seaflo pressure switch, model 41S SFDP1-045-040-41, highlighting its compact design and connection points.

Key Features:

- Automatic pump control
- Rated for 17 Liters per minute (LPM) flow
- Pressure setting: 2.8 Bar (40 PSI)
- Durable construction

SETUP AND INSTALLATION

Before installation, ensure the pump system is depressurized and power is disconnected.

1. **Mounting:** Securely mount the pressure switch in an accessible location, close to the pump, ensuring it is protected from direct water spray or extreme temperatures.
2. **Plumbing Connections:** Connect the pressure switch to the pump's discharge line. Use appropriate thread sealant (e.g., PTFE tape) on all threaded connections to prevent leaks. Ensure connections are tight but do not overtighten.
3. **Electrical Wiring:**

- Identify the power input and pump output terminals on the pressure switch.
 - Connect the main power supply to the input terminals.
 - Connect the pump's power cable to the output terminals.
 - Ensure all wiring conforms to local electrical codes and the voltage/current ratings of the switch and pump.
 - A qualified electrician should perform all electrical wiring.
4. **System Priming:** If required by your pump, prime the pump system according to the pump manufacturer's instructions.
5. **Initial Power-Up:** Restore power to the system. The pump should activate when the pressure drops and shut off when the set pressure is reached.

OPERATING INSTRUCTIONS

The LIGHTEU® Seaflo Pressure Switch operates automatically once installed and powered correctly.

- When the water system pressure falls below approximately 40 PSI (2.8 Bar), the pressure switch will close its contacts, supplying power to the pump and causing it to run.
- As the pump runs, it increases the system pressure. When the pressure reaches approximately 40 PSI (2.8 Bar), the pressure switch will open its contacts, cutting power to the pump and causing it to stop.
- This cycle repeats as water is drawn from the system.

Note: The pressure switch is factory-set and typically does not require adjustment. Any attempts to alter factory settings may void the warranty and compromise performance.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your pressure switch.

- **Periodic Inspection:** Annually inspect the pressure switch for any signs of physical damage, corrosion, or loose connections.
- **Leak Check:** Check all plumbing connections for leaks. Tighten any leaking connections, but do not overtighten.
- **Electrical Connections:** Ensure all electrical terminals are clean and securely fastened.
- **Cleaning:** Keep the exterior of the pressure switch clean and free from dirt, dust, and debris. Do not use harsh chemicals or abrasive cleaners.
- **Winterization (if applicable):** If the system is exposed to freezing temperatures, ensure the pressure switch and pump are properly drained or protected from freezing to prevent damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start.	No power to the switch/pump. Faulty wiring connection. Pressure switch contacts stuck open.	Check power supply and circuit breaker. Inspect and secure all electrical connections. Consult a qualified technician for inspection/replacement.

Problem	Possible Cause	Solution
Pump runs continuously.	System leak. Pressure switch contacts stuck closed. Pump unable to reach cut-off pressure.	Check for leaks in the plumbing system. Consult a qualified technician for inspection/replacement. Check pump performance and system demand.
Pump cycles on and off frequently.	Small leak in the system. Waterlogged pressure tank (if applicable). Incorrect pressure switch setting (unlikely for this model).	Inspect plumbing for minor leaks. Check and recharge pressure tank air pre-charge. Ensure system pressure is within operating range.

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

SPECIFICATIONS

- **Model:** SFDP1-045-040-41 (41S)
- **Brand:** LIGHTEU®
- **Maximum Flow Rate:** 17 Liters per minute
- **Pressure Setting:** 2.8 Bar (40 PSI)
- **Power Source:** Electric with cable
- **Style:** Industrial
- **Unit Count:** 1.0 Count
- **Country of Origin:** China

WARRANTY AND SUPPORT

Specific warranty information for this product is not available in the provided data. For warranty details or technical support, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.