

Danfoss KP-15 060-1264

Danfoss KP-15 060-1264 Automatic Reset High-Low Pressure Switch User Manual

Model: KP-15 060-1264

1. INTRODUCTION

The Danfoss KP-15 060-1264 is an automatic reset high-low pressure switch designed for regulating pressure in refrigeration and air conditioning systems. It ensures safe operation by monitoring pressure levels and activating or deactivating components as needed. This manual provides essential information for the proper installation, operation, and maintenance of the device.

2. SAFETY INSTRUCTIONS

Always observe general safety precautions during installation and servicing. Only qualified personnel should install, service, or repair this equipment. Disconnect power before servicing. Ensure all electrical connections comply with local codes and regulations.

3. SETUP AND INSTALLATION

Proper installation is crucial for the reliable operation of the KP-15 pressure switch.

3.1 Mounting

Mount the pressure switch in a location free from excessive vibration and moisture. Ensure easy access for wiring and pressure line connections. The switch can be mounted in any position, but vertical mounting with the pressure connections downwards is generally recommended to prevent accumulation of oil or moisture.

3.2 Pressure Line Connection

Connect the pressure lines to the appropriate ports on the switch. Ensure a tight, leak-free connection using suitable fittings and sealants. The KP-15 features two pressure connections for high and low pressure monitoring.

3.3 Electrical Wiring

Refer to the wiring diagram provided inside the switch cover. Connect the electrical supply and control circuits according to the system requirements. Ensure proper grounding. The switch is rated for 15 Amperes.

3.4 Pressure Setting

Adjust the cut-in and cut-out pressure settings using the adjustment screws located under the cover. The KP-15 is an automatic reset type, meaning it will automatically reset once the pressure returns to the set limits.



An image showing the Danfoss KP-15 060-1264 pressure switch, a white rectangular device with a blue top cover, two pressure connections at the bottom, and internal adjustment scales visible through clear panels.

4. OPERATING INSTRUCTIONS

The Danfoss KP-15 operates in an ON-OFF mode, automatically responding to pressure changes within the system.

4.1 Automatic Operation

Once installed and set, the pressure switch will continuously monitor the system pressure. If the pressure exceeds the high-pressure set point or falls below the low-pressure set point, the switch will activate its contacts to control the connected equipment (e.g., compressor, fan).

4.2 Reset Function

As an automatic reset switch, the KP-15 will automatically return to its normal operating state once the system pressure returns to within the acceptable range, without requiring manual intervention.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliability of your pressure switch.

- **Visual Inspection:** Periodically inspect the switch for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** Keep the exterior of the switch clean and free from dust and debris. Do not use harsh chemicals.
- **Connection Check:** Ensure all electrical and pressure line connections remain secure and leak-free.
- **Functionality Test:** If possible and safe, periodically test the switch's functionality by simulating pressure conditions to verify its cut-in and cut-out points.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the KP-15 pressure switch.

Problem	Possible Cause	Solution
Switch not activating at set pressure	Incorrect pressure settings; Clogged pressure line; Faulty switch.	Verify and adjust settings; Check and clear pressure lines; Test switch continuity (if qualified).

Problem	Possible Cause	Solution
Switch continuously cycles	Pressure fluctuations in the system; Differential setting too narrow.	Investigate system pressure stability; Adjust differential setting to a wider range.
No electrical response	No power supply; Loose wiring; Blown fuse/breaker.	Check power supply; Inspect and secure wiring; Check and replace fuse/reset breaker.

If problems persist after attempting these solutions, contact a qualified service technician.

7. SPECIFICATIONS

- Brand:** Danfoss
- Model:** KP-15 060-1264
- Operating Mode:** ON-OFF
- Rated Current:** 15 Amperes
- Material:** Plastic
- Number of Units:** 1
- Manufacturer:** Danfoss
- ASIN:** B07HM5QLFX
- Manufacturer Reference:** 12861760
- Country of Origin:** Spain
- First Available Date:** September 24, 2018