

## LF5D Differential Pressure Controller

### Introduction

Differential pressure controller (hereinafter shorted as controller) is used as a protection device for pressure lubrication and differential pressure of refrigeration compressor or other machinery. In the refrigeration system, the controller receives two pressure signals of the discharge pressure of the lubricating oil pump and the suction pressure of the compressor and maintains a certain difference range between the two pressures. And when the difference value is less than the set value of the controller, the controller acts to automatically cut off the compressor circuit and stops the compressor in order to protect the compressor.

### Technical parameter

1. Standard models are suitable for Freon, air, liquid and other non-corrosive media; in addition, special specifications for ammonia refrigerant are available.
2. Medium temperature -40°C...+120°C
3. Ambient temperature -20°C...+70°C
4. Provides an international standard mounting bracket that can be used in any location.
5. SPDT switch ensures reliable contact switching.
6. The pressure bellows of the standard model are phosphor bronze bellows, the pressure port is made of brass, and the bellows and pressure ports for the ammonia refrigerant model are made of stainless steel.

### Model and data

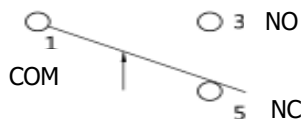
| Model  | Range (bar) |     | Factory setting (bar) | Maximum working pressure (bar) |
|--------|-------------|-----|-----------------------|--------------------------------|
|        | Min         | Max |                       |                                |
| LF5D2  | 0.5         | 2   | 0.5                   | 16.5                           |
| LF5D4  | 0.5         | 3.5 | 1                     | 16.5                           |
| LF5D4H | 0.5         | 3.5 | 1                     | 33                             |
| LF5D6  | 1           | 6   | 1                     | 16.5                           |
| LF5D6H | 1           | 6   | 1                     | 33                             |

Scale board uses "bar" and "psig" two kinds of calculation units; If the customer has special requirements, we can also use "MPa", "Kgf/cm2" and other units of measurement.

As to the connection, we can make it based on customer's requirements, add "E" after the British thread model, add "C" after the welding port model, add "S" after the capillary model, such as LF5D4E.

Add "B" after the ammonia refrigerant type, such as LF5D4B.

### Contact Function:



- 1 Common contact
  - 1-3 close when pressure rises
  - 1-5 close when pressure drops
- Arrow indicates the direction of action when the pressure difference increases

### ■ Installation instructions

1. When the pressure difference controller is in the system pipeline connection, the high pressure connection of the controller must be connected with the high pressure pipeline, and it must not be reversed.
2. When the pressure difference controller is in the system piping connection, it must be fixed with a spanner at the hexagon of the controller connector, then use another spanner to tighten the connection nut to prevent damage to the controller.

