Liquid Differential Pressure Switch FD113

Description

The FD113 is a differential pressure switch which is used for monitoring flow status across pumps, chillers etc. The unit has and adjustable setpoint with scale and ¼" BSP female pipe connections.

Features

- Wide Pressure Range
- Suitable for mains voltages
- Visible Setpoint Scale
- SPDT Switch Output for high or low pressure setting

Technical Specification

Range:	0.3...4.5 bar
Switching differential:	0.2 bar
Pipe connections:	1/4" BSP female
Ambient temperature:	-20...+70°C
Liquid temperature:	0 to 110°C
Switch rating:	5(3)A @ 240Vac
Protection:	IP30
Dimensions:	128 x 175 x 48mm
Weight:	800g

Order Code

FD113	Liquid Differential Pressure Switch 0.3...4.5 bar

Safety instructions:

- Read installation instructions thoroughly. Failure to comply can result in device failure, system damage or personal injury.
- It is intended for use by persons having the appropriate knowledge and skill.
- Before opening any system make sure pressure in system is brought to and remains at atmospheric pressure.
- Ensure supply voltage and current of electric device match rating on FD113 name plate. Disconnect supply voltage from system and FD113 before installation or service.
- Do not exceed test pressure.
- Keep temperatures within nominal limits.
- Do not apply torsional force to switch housing assembly during assembly

Differential Pressure Setting:

The cut-out pressure can be adjusted between 0.3 bar and 4.5 bar (factory setting: 0.7 bar). Cut-in pressure is fixed 0.2 bar above cut-out pressure.

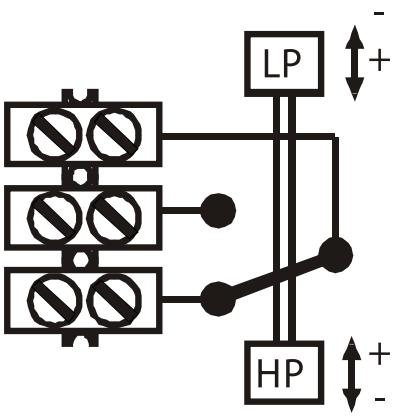
Mounting direction:

FD113 can be mounted in any direction, preferably with pressure connections vertically.

Pressure connection:

Apply Teflon sealant to adapter thread.

Wiring



Leakage test:

After completion of installation, a test pressure must be carried out as follows:

- According to EN378 for systems which must comply with European pressure equipment directive 97/23/EC
- To maximum working pressure of system for other applications

Warning:

- Failure to do so could result in loss of refrigerant and personal injury.
- The pressure test must be conducted by skilled persons with due respect regarding the danger related to pressure.

Maintenance/Service:

In case of repair work or replacing the control always **use new sealant.**

Test FD113, FD113A:

Pushing lever 1 upwards simulates a pressure rise at the HP side. Pushing lever down during operation simulates a lack of HP: