

INSTALLATION AND OPERATING INSTRUCTIONS

FILTER PRESSURE DIFFERENTIAL SWITCH FPS1

The pressure differential switch is suitable for applications where airflow proving or filter monitoring is required. A duct kit is supplied with the pressure switch. It consists of 2m of 6mm tubing, 2 plastic duct adaptors and mounting screws.

Specification

Range	Max operating pressure	Contact rating	Pressure connections	Protection
0.2-3mbar (20-300pa)	50mbar (5000pa)	1.5A (0.4) 230v ac	6mm ID push on tubing	IP54



Installation

The pressure switch should be installed by a competent electrician. Ensure all power is disconnected prior to undertaking any work on the pressure switch. The switch is normally mounted vertically with the ports facing downwards.

Applications

Airflow proving

The pressure switch can be used across a fan to provide proof of airflow. See fig 1

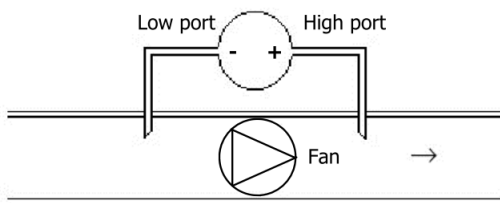


Fig 1: Port connections for airflow proving

The pressure switch can be used across a filter to provide filter dirty status. See fig 2

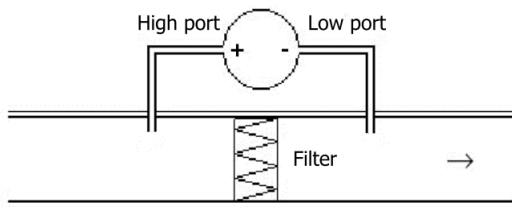
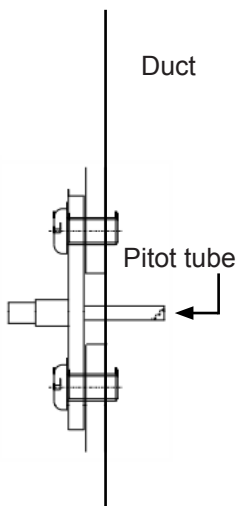
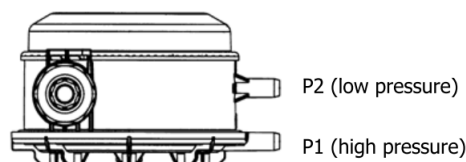


Fig 2: Port connections for filter dirty status

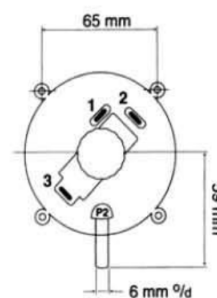
If the switch is to be used for filter status monitoring, the pitot tube ends should be cut square. If the switch is to be used for fan status monitoring, the ends of the pitot tube should be cut at an angle of 45°



Port connections



Electrical connections



- 1: Normally closed
- 2: Normally open
- 3: Common