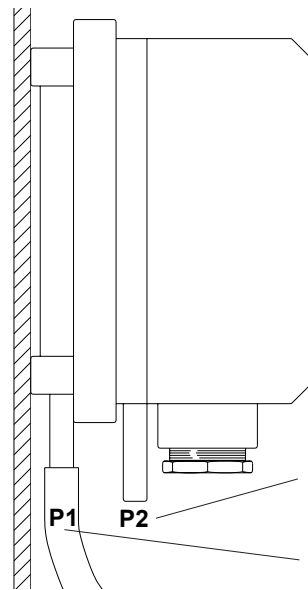


Differential Pressure Switch

Installation, Operation and Maintenance Manual

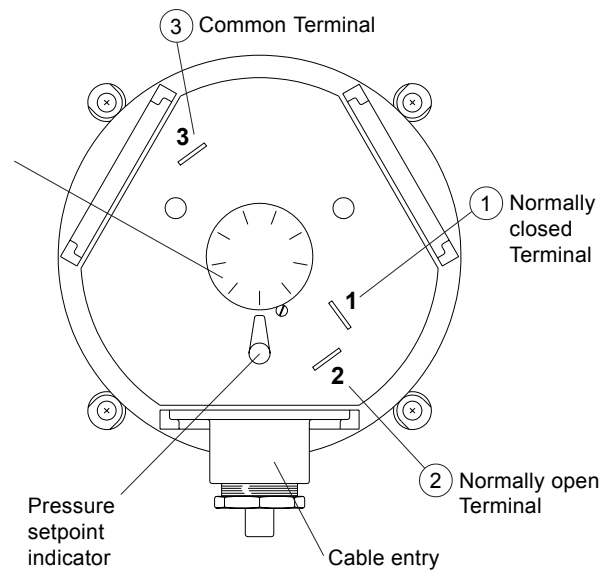
Fig. 1 APS930A - Differential pressure switch



Side view
Pressure switch installed

P2 is left open to case atmosphere
P1 is connected to pressure source

Note: When installation is complete ensure that the caps used to protect P1 & P2 have been removed for correct operation.



Plan view
(Cover plate removed)

Introduction

The differential pressure switch is used within a system to detect a loss of airflow through a unit. Depending on the switch installation, it can be used to indicate dirty filters or switch off an EHB to prevent the unit from overheating.

Wiring


All electrical connections must be carried out in accordance with the current edition of the I.E.E REGULATIONS and only competent electricians should be allowed to affect any electrical work to our units.

Remember to pass cable entry connector assembly onto wiring before making any connection. Standard switch connections are 6.4mm blade terminals, fit appropriate shrouded female insulated terminals to your wiring.

Cable entry: Note the cable entry is adjustable for 3 different positions. Rotate cover with gland nut to required position after making all necessary electrical connections. Ensure adequate wire lengths are used to allow required cable entry position without straining switch connections. Fasten cable gland nut and cover securely see *fig. 1*.

For normal operation, wire terminals 2 & 3 into the control circuit. When used in conjunction with a VES control panel, wire terminals 2 & 3 into heater cut-out circuit (see appropriate control panel wiring diagram). For pre-wired units please refer to the appropriate control panel wiring diagram for confirmation of switch connections.

Setup

IMPORTANT 
Isolate all electrical supply to switch before removing cover.

Setup continued

Remove cover if fitted. The pressure setpoint indicator (see *fig. 1*), indicating the pressure setting point is in line with the pressure port connections P1 and P2. Rotate the pressure selection knob until the desired trip pressure is opposite the set point indicator. Replace cover and reinstate the electrical supply if safe to do so.

Pressure connection

Make a final check to ensure that pressure connections remain secure at both switch and pressure source. Ensure tubing is connected from P1 to pressure source, P2 is left open to case atmosphere. Check all tubing to ensure there are no sharp bends or kinks; tubing should be supported where necessary.

Note: When installation is complete ensure that the caps used to protect P1 & P2 have been removed for correct operation.

When enquiring after or ordering spares contact VES Spares Department, quoting the sales order (SO) number where appropriate.

Telephone	08702 40 43 40
Fax	08702 40 45 50



PLEASE ENSURE THAT THIS DOCUMENT IS PASSED ON TO THE END USER.

We reserve the right to alter the specification without notice