

Farnell

Instruction Leaflet

6101-0018

Farnell Ref: 427-6565

Operating instructions

Electrical connections by 250 (1/4") push-on connectors.

- 1 – Common
- 2 – N.C. opens on pressure rise
- 3 – N.O. closes on pressure rise

The switch is factory set to operate within +/- 0.1 PSI at 1 PSI on rising pressure.

Pressure connection

Straight Tube for 1/8 ID Tubing or Gasket or O-Ring.

Pressure range

Four springs are supplied with the switch, colour coded and offering the following ranges:

*INSTALLED SPRING	1.0-4.0 P.S.I.	
RED	3.0-10.0 P.S.I.	▶ SPRING KIT 49-0003-A-00
DARK BLUE	9.0-20.0 P.S.I.	
YELLOW	19.0-40.0 P.S.I.	

*fitted as standard

Adjustment of the setpoint is provided by an adjustment screw and compression spring, acting against the force of the diaphragm. Media pressure acting against the diaphragm causes the pressure disc to push up against the operator button of the microswitch. The disc has a stop to prevent overtravel of the operator button of the microswitch.

Because of the snap action, of the microswitch, the switches do have a “deadband” or “hysteresis” which most designers utilise in their logic circuit.

Before attempting to change the pressure spring, disconnect the electrical supply from the microswitch and pressure hose from the pressure port.

To change the pressure range spring, unscrew the pressure adjustment screw and withdraw only the operating spring from the body. If the operating pin is also removed, replace it before replacing the spring. Select the new spring and insert into the switch and replace the adjustment screw.

Technical specification

Pressure range:_____1.5 IN H2O to 45 psig (using four springs)
Electrical:_____SPDT(N/O or N/C)
Contact Rating_____5 Amp, 250Vac
Fluid Medium_____Wide range of media
Burst pressure_____45 psig
Mechanical Life_____1.0x10⁶ cycles
Operating temp_____ -40 to 85°C
Contacts_____Silver alloy
Diaphragm_____Polyurethane
Case material _____Glass filled polyester
Weight_____18 grams
