Farnell

Instruction Leaflet

6101-0016 Farnell Ref: 427-6577

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 +/- 1 PSI at 10 PSI on rising pressure.

Pressure connection

1/8" NPT base entry.

Pressure range

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

*INSTALLED SPRING	10-40 PSI	
RED	30-125 PSI	
DARK BLUE	60-170 PSI	▶ SPRING KIT
YELLOW	125-250 PSI	49-0002-A-00

*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 "hysterisis" 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:	10-250 PSI (using four springs)
Electrical:	SPDT(N/O or N/C)
Contact Rating	5 Amp, 250Vac
Fluid Medium	Wide range of media
Burst pressure	500 psig
Mechanical Life	$1.0x10^6$ cycles
Operating temp	-40 to 85^oC
Contacts	Silver alloy
Diaphragm	Polyurethane
Case material	Die Cast Housing
Weight	57 grams

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