

Farnell
Instruction Leaflet

6101-0021

Farnell Ref: 427-6530

Operating instructions

NEMA .020 x .187 male tabs are standard on all 500 series model pressure sensors.

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

The switch is factory set to operate within +/- 10% from 10 to 50 IN H₂O on rising pressure, vacuum or differential.

Pressure connection

Straight Tubes for 1/8" ID tubing.

The operation of all normally open models is identical-fluid pressure acting against the diaphragm causes the cantilevered contact blade to deflect. The amount of deflection is a function of the contact thickness and the pressure. The contact blade deflects until it contacts the sharp points of the fixed adjustment blade, completing an electrical circuit.

The relative position of the contact blade and the adjustment blade is determined by the adjustment screw, which moves the relatively rigid adjustment blade toward the contact blade.

The electrical circuit is from one terminal, through the rivet, to the contact blade; and from the other terminal, through its rivet, to the adjustment blade.

Technical specification

Pressure range: _____ 10.0 to 50.0 IN H₂O
Electrical: _____ N/O or N/C
Contact Rating _____ 10 to 20 mA
Fluid Medium _____ Air
Burst pressure _____ 25 psig
Mechanical Life _____ 100x10⁶ cycles
Operating temp _____ -40 to 85°C
Contacts _____ Phosphor bronze with gold inlay
Diaphragm _____ Polyurethane
Case material _____ Glass filled polyester
Weight _____ 10 grams