

**Farnell**  
Instruction Leaflet

6101-0019

Farnell Ref: 427-6553

**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 100 to 550 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: \_\_\_\_\_ 100.0 to 550.0 IN H2O  
Electrical: \_\_\_\_\_ N/O or N/C  
Contact Rating \_\_\_\_\_ 10 to 20 mA  
Fluid Medium \_\_\_\_\_ Air  
Burst pressure \_\_\_\_\_ 25 psig  
Mechanical Life \_\_\_\_\_ 100x10<sup>6</sup> cycles  
Operating temp \_\_\_\_\_ -40 to 85°C  
Contacts \_\_\_\_\_ Phosphor bonze with gold inlay  
Diaphragm \_\_\_\_\_ Polyurethane  
Case material \_\_\_\_\_ Glass filled polyester  
Weight \_\_\_\_\_ 10 grams