### **SPECIFICATIONS**

JTL Part No	Range
PT1-G	0 to 100 psi
PT2-G	0 to 200 psi
PT3-G	0 to 300 psi
PT5-G	0 to 500 psi
PT1A-G	-15 to 85 psi
PT35BA-G	-1 to 34 bar
PT60B-G	0 to 60 bar

### Overload

w/o damage: 4 x range w/o burst: 20 x range

### Span

 $5 \pm 0.05$  Vdc at 25°C signal output: 1-6 Vdc

### **Null Offset**

1.0 ± 0.05 Vdc at 25°C

## **GENERAL**

The Model PTn-G pressure transducer is a high-gain strain gauge device with an amplified 5 Vdc output. It is fully compensated and calibrated. All Model PTn-G units measure gauge pressure and have circuitry vented to the atmosphere.

### WIRING

Connections are made as shown on the outline drawing. Recommended wire size is 0.5 mm<sup>2</sup>. PTn-G's are made with 4 connection pins. There is no reverse polarity protection: miswiring could damage the transducer.

# **MECHANICAL INSTALLATION**

Omni-directional, self supported directly on to the pipework. Use a 19mm AF  $(\frac{3}{4}")$  spanner on the hexagon provided to apply a maximum torque of 15.8 Nm.

# **PRECAUTIONS**

The case of the Model PTn-G should never be used to apply torque to make or break the pressure connection. Always use a wrench on the hex directly behind the threaded port.

Do not subject the transducer to high temperature as a result of soldering, brazing or welding of the system plumbing. In high humidity environments where condensation may occur, mount the transducer so that the connector attaches from the bottom or side. This prevents creation of a moisture trap.

# PRESSURE OVERLOADS

If the overload rating is exceeded, electrical failure may occur. Pressure fluctuations exist in most systems. The transducer rating should be high enough to prevent overload by the peak pressure, or a snubber can be used

#### **Excitation**

7.5 to 35 Vdc (no reverse polarity protection)

## **Minimum Load Resistance**

3K ohm

## Accuracy

± 1% span from best fit straight line including effects of non-linearity, hysteresis and repeatability.

### **Operating Temperature Range**

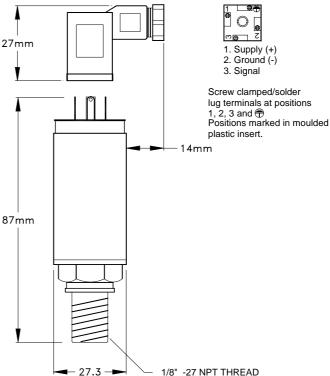
-40°C to +125°C

### **Compensated Temperature Range**

-20°C to +80°C

## **Media Compatibility**

The wetted parts are 316 & 17-4 PH stainless steel plus Nickel Braze to BS1845: NK3/HTN2.



to reduce the peak pressure applied to the transducer. The life of the PTn-G may be reduced if it is repeatedly overloaded.

## **ENVIRONMENTAL PROTECTION**

IP65

Care should be taken if the transducer is to be used in atmospheres of high humidity, spray or driving dust. In such cases, a protective enclosure is recommended.

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