

Dynisco PT465XL

*NOZZLE PRESSURE TRANSDUCERS FOR
INJECTION MOLDING APPLICATIONS*



Description

The PT465XL measures polymer melt pressure in an injection molding machine nozzle or a hot runner. A protective flexible armored cable extends from its electronic housing to the tip for unmatched strength and increased life. Located in the nozzle, the PT465XL provides a very accurate measurement of the pressure of the plastic melt entering the mold.

Features

- 1" flex bend radius
- Inconel 718 diaphragm
- Free spinning jam nut
- Better than $\pm 0.5\%$ accuracy
- Up to 750°F (400°C) melt temperatures
- Minimum mounting space design
- Extra abrasion/corrosion resistance
- Ease of Installation
- Accurate measurement
- Ideal for high temperature processes

Ordering Guide

PT465XL-XX

Pressure Range (psi)
3M = 0 - 3,000
5M = 0 - 5,000
7.5M = 0 - 7,500
10M = 0 - 10,000
15M = 0 - 15,000
20M = 0 - 20,000
30M = 0 - 30,000

Note: 30,000 psi model available. Please consult factory.

- Mating connector P/N711600 or 6-pin cable assembly sold separately.

Performance Characteristics

Ranges:	0 - 3,000 psi, 0 - 5,000 psi, 0 - 7,500 psi, 0 - 10,000 psi, 0 - 15,000 psi, 0 - 20,000 psi, 0 - 30,000 psi
Accuracy:	±0.5% full scale
Repeatability:	±0.2% FSO

Electrical Characteristics

Configuration:	Four active arm bonded Wheatstone bridge strain gage
Bridge Resistance:	Input: 345 Ohms minimum; Output: 350 Ohms ±10%
Full Scale Output:	3.33 mV/V ±2.0%
Zero Balance:	±10% full scale

Temperature Characteristics

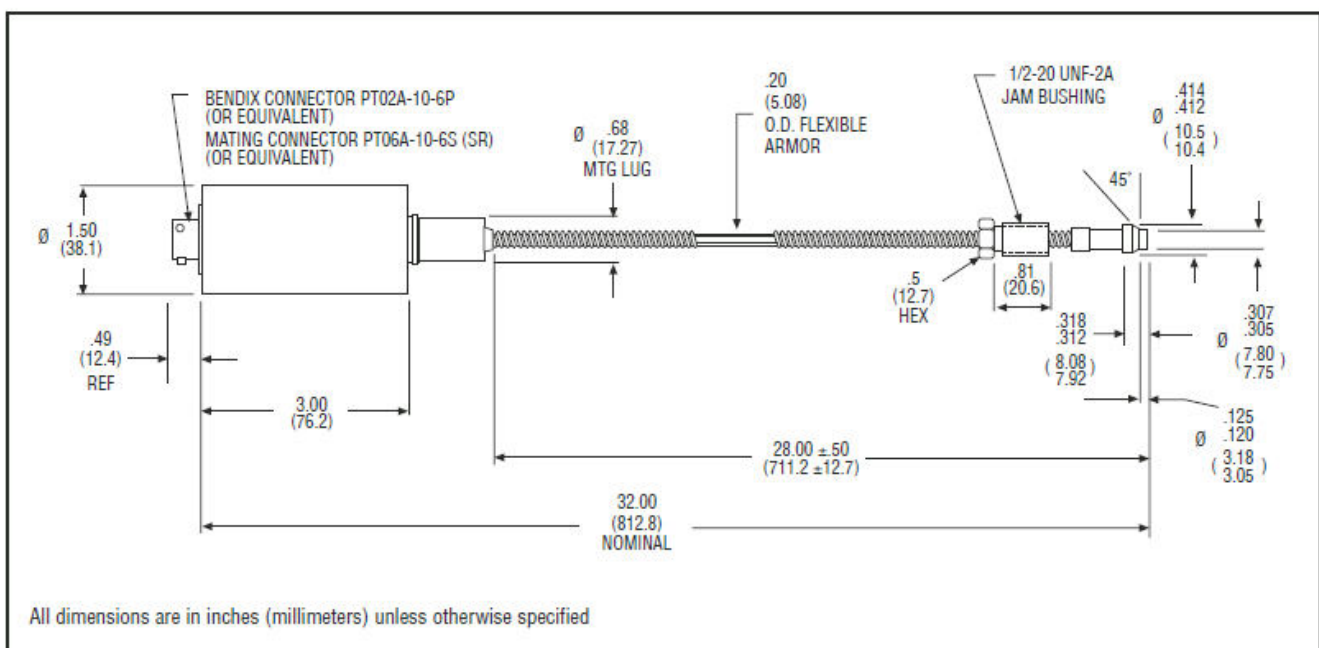
Transducer Diaphragm:

Maximum Diaphragm Temp:	750°F (400°C)
Zero Shift Due to Temp Change:	<20 psi/100°F (36 psi/100°C)
Mounting Torque:	500 inch - lbs. maximum
Maximum Pressure:	2 x range or 35,000 psi, whichever is less
Material in Contact with Pressure Media:	Inconel 718
Weight:	1.5 lbs.
Excitation:	10 Vdc recommended, 12 Vdc maximum
Internal Shunt Calibration:	80% FSO ±1.0%
Insulation Resistance:	1,000 megohms at 50 Vdc

Electronic Housing:

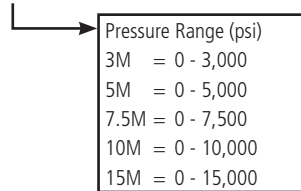
Zero Shift Due to Temp Change:	±0.5% full scale/°F maximum (±0.10% full scale/°C)
Sensitivity Shift Due to Temp Change:	±0.02% full scale/°F maximum (±0.04% full scale/°C)

Dimensions



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