



Features

- Accuracy better than +/- 1.0%
- Inconel diaphragm
- Superior temperature stability
- Patented sensing element
- 0 - 3,000 to 0 -30,000 psi
- Internal 80% shunt calibration

Benefits

- Reliable, repeatable pressure measurements
- Superior abrasion and corrosion resistance
- Ideal for high temperature processes
- Superior durability
- Wide variety of pressure ranges
- Easy to calibrate with local indicator

Description

The PT460XL Series transducer is a +/- 1.0% sensor ideal for abrasive and/or corrosive melt pressure applications requiring simple installation, repeatability and reliability. The PT460XL transducers provide the industry standard 3.33 mV/V signal designed to work with most pressure indicators. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT460XL features a 1/2-20 UNF thread for installation in standard transducer mounting holes and can be supplied with a variety of electrical connections.

Specifications

PERFORMANCE CHARACTERISTICS

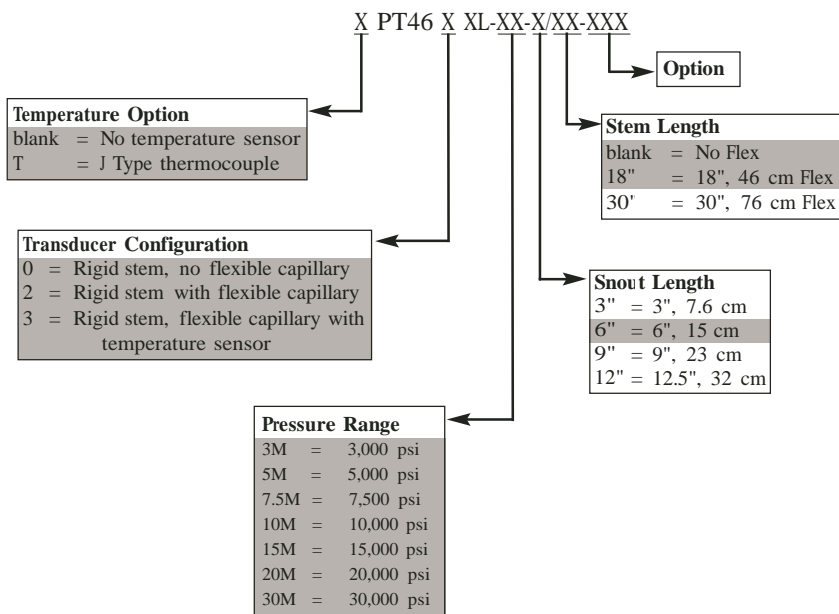
Output: 3.33 mV/V +/- 2.0%
Input Voltage: 10 Vdc recommended, 12 Vdc maximum
Combined Error: +/- 1.0% FSO,
 (Including Linearity, Repeatability & Hysteresis)
Repeatability: +/- 0.2% FSO
Configuration: Four-arm bonded foil Wheatstone bridge strain gage
Bridge Resistance: Input: 345 Ohms minimum
 Output: 350 Ohms +/- 10%
Over Pressure: 2 X FSO or 35,000 psi whichever is less
Zero Balance: +/- 10% FSO
Internal Shunt Calibration (R-Cal): 80% FSO +/- 1%
Insulation Resistance: 1000 megohms @ 50 Vdc

TEMPERATURE & MECHANICAL CHARACTERISTICS

Max Diaphragm Temperature: 750°F (400°C)
Zero Shift (due to temperature change):
 <20 psi/100°F Typical (<36 psi/100°C)
Electronics Operating Temperature: 250°F (121°C)
Zero Shift Due to Temperature Change:
 +/- 0.05% FS/°F max (+/- 0.10% FS/°C max)
Sensitivity Shift Due to Temperature Change:
 +/- 0.02% FS/°F max (+/- 0.04% FS/°C max)
Mounting Torque: 500 inch/lbs. maximum
Standard Wetted Parts: Inconel 718



Ordering Guide



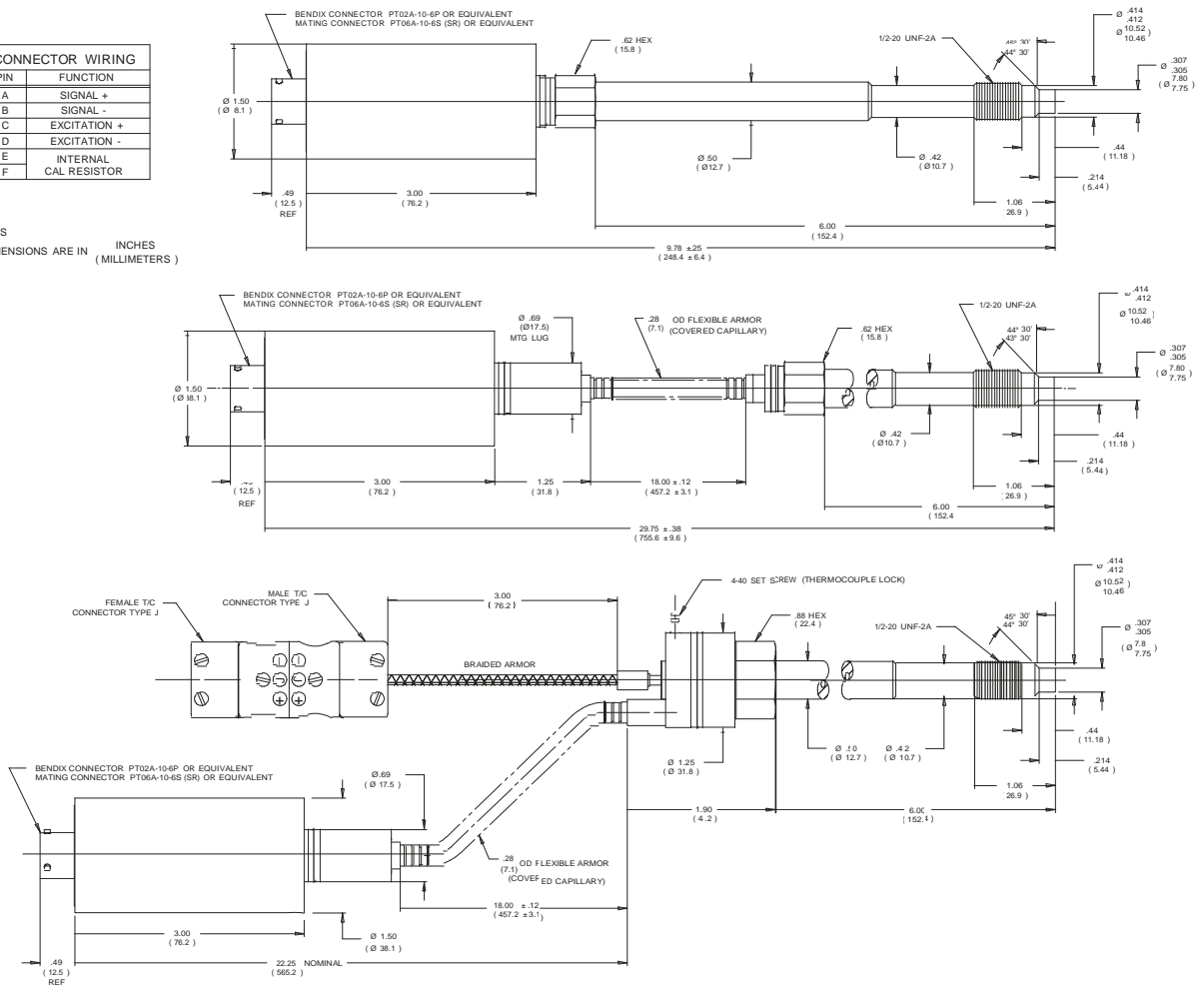
Standard mating connector Dynisco P/N 711600 or 6-pin mating connector cable assembly.

Shaded sections refer to standard configurations. Accuracy may be affected if non-standard configurations are used. For additional options please consult factory.



CONNECTOR WIRING	
PIN	FUNCTION
A	SIGNAL +
B	SIGNAL -
C	EXCITATION +
D	EXCITATION -
E	INTERNAL CAL RESISTOR
F	

NOTES
1. DIMENSIONS ARE IN INCHES (MILLIMETERS)



All dimensions are inches (mm).



<http://www.aptus-hmi.com/>

Ctra.de Ribes,195 - 08520 LES FRANQUESES DEL VALLES

Telf. 93 840 25 24 - Fax 93 8402503 - dynisco@aptus-hmi.com