Dynisco

From lab to production,
providing a window into the process

PT 467E

Pressure Sensors

The Classic Melt Pressure Transducer for Space Restricted Areas

SIL 2
Safety Integrity Level
IEC 61508 / IEC 61511

Description

Dynisco model PT467 Series of pressure transducers features a small, 6 mm sensing element ideal for general purpose polymer melt pressure measurements with space restriction issues or on small lab extruders and rheometers. The PT467E features a 0.06" diameter exposed capillary. This allows 1/16" radius bends. It also has a free-spinning jam nut that simplifies installation. Standard transducers are supplied with a DyMax® coated diaphragm for increased wear resistance and longevity. A 6-pin bendix-style connector is used for easy connect and disconnect. The PT467E is designed for the restricted locations is ideal for nozzle pressure measurements in Injection Molding, small lab extruders and rheometers.

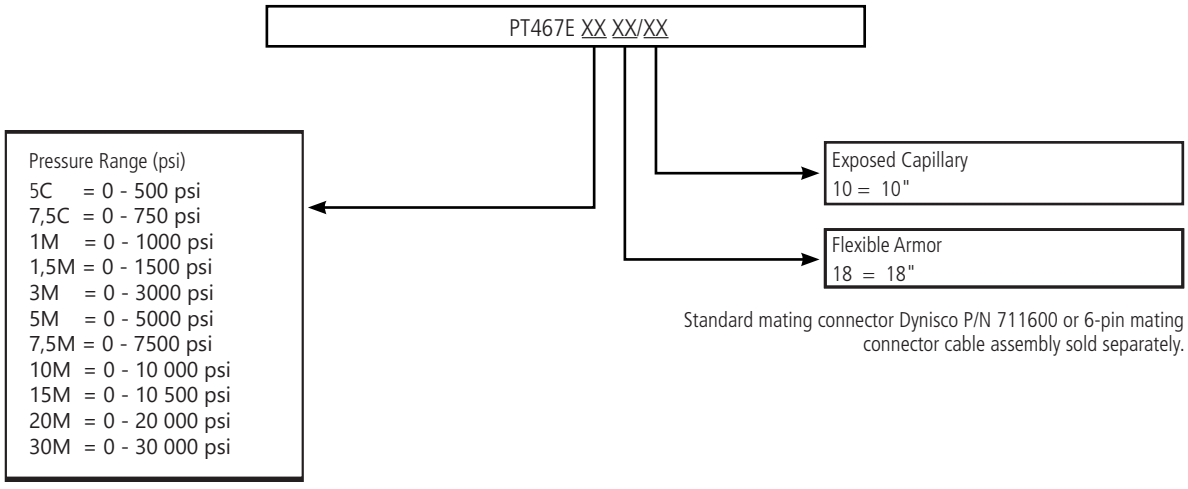
Features

- 3.33 mV/V full scale output
- 6 mm sensing element
- Accuracy of better than ±1%
- Pressure ranges from 0 - 5,000 psi to 0 - 10,000 psi
- Good stability and repeatability
- Fits in space limited areas
- Internal 80% shunt calibration

Performance Characteristics	
Ranges (psi):	0 - 5,000, 0 - 7,500, 0 - 10,000
Accuracy:	±1.0% FSO
Repeatability:	±0.2% FSO
Mounting Torque:	500 inch - lbs. maximum
Maximum Pressure:	2 x full range
Material in Contact with Pressure Media:	Inconel 718
Weight:	1.5 lbs.
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
Excitation:	10 Vdc recommended, 12 Vdc maximum
Internal Shunt Calibration (R-Cal):	80% FSO ±1.0%
Insulation Resistance:	1,000 megohms at 50 Vdc

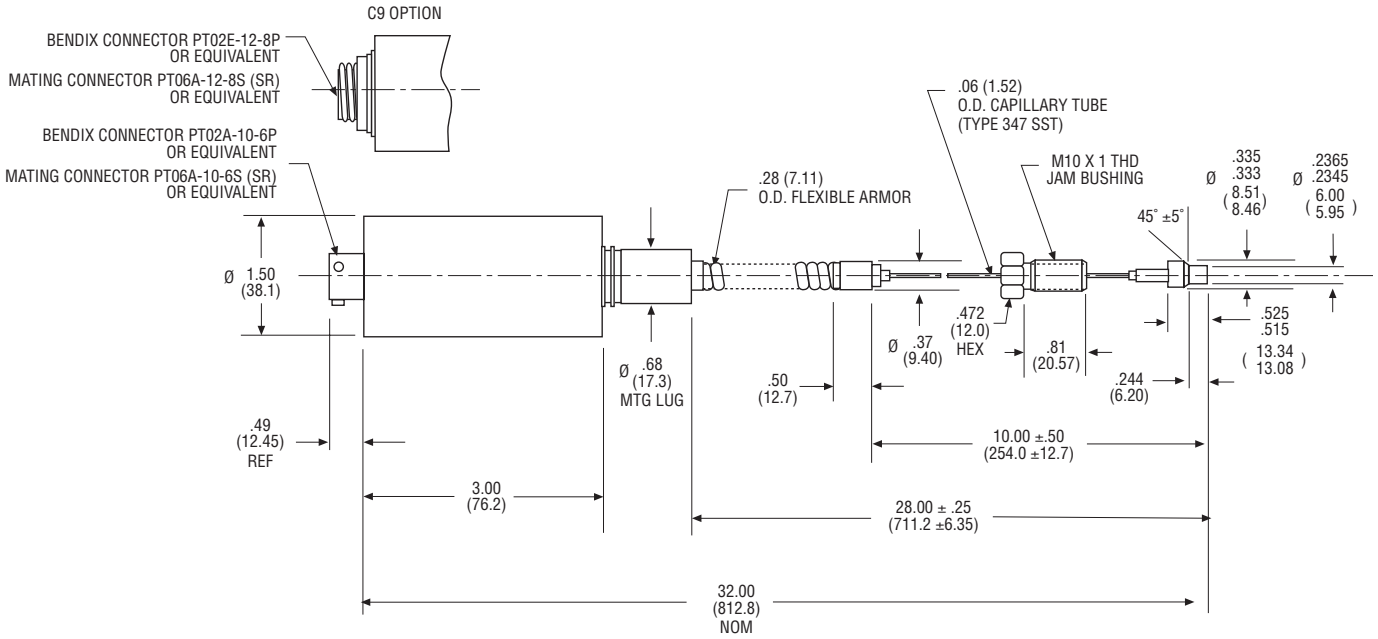
Temperature Characteristics	
Transducer Diaphragm:	
Maximum Diaphragm Temperature:	750°F (400°C)
Zero Shift due to Temperature Change:	20 psi/100°F maximum (37 psi/100°C)
Electronics Housing:	
Maximum Temperature:	250°F (121°C)
Zero Shift due to Temperature Change:	0.05% full scale/°F maximum (0.10% full scale/°C)
Sensitivity Shift due to Temperature Change:	0.02% full scale/°F maximum (0.04% full scale/°C)

Ordering Guide for PT467E-M10



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

Dimensions



All dimensions are in inches (millimeters) unless otherwise specified

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