

PT311JA Flush Mounted Pressure Sensors

*RELIABLE AND ACCURATE
PRESSURE MEASUREMENT*



Description

Dynisco's PT311JA flush diaphragm pressure transducer is designed for applications requiring a zero volume pressure port. The flush diaphragm improves frequency response and has excellent cleanability. The PT311JA has a full scale output of 3mV/V and offers reliable and accurate pressure measurement of gases, viscous liquids and slurries.

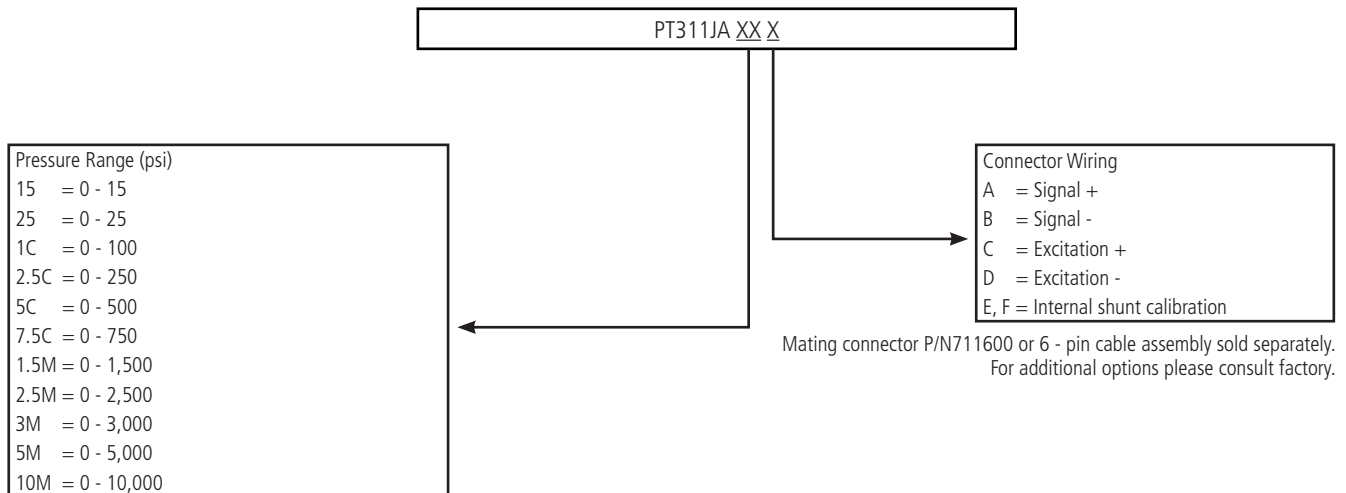
Features

- Flush diaphragm
- Accuracy $\pm 0.50\%$
- Zero volume pressure port
- 15 to 10,000 psi
- 3 mV/V output
- Internal shunt calibration

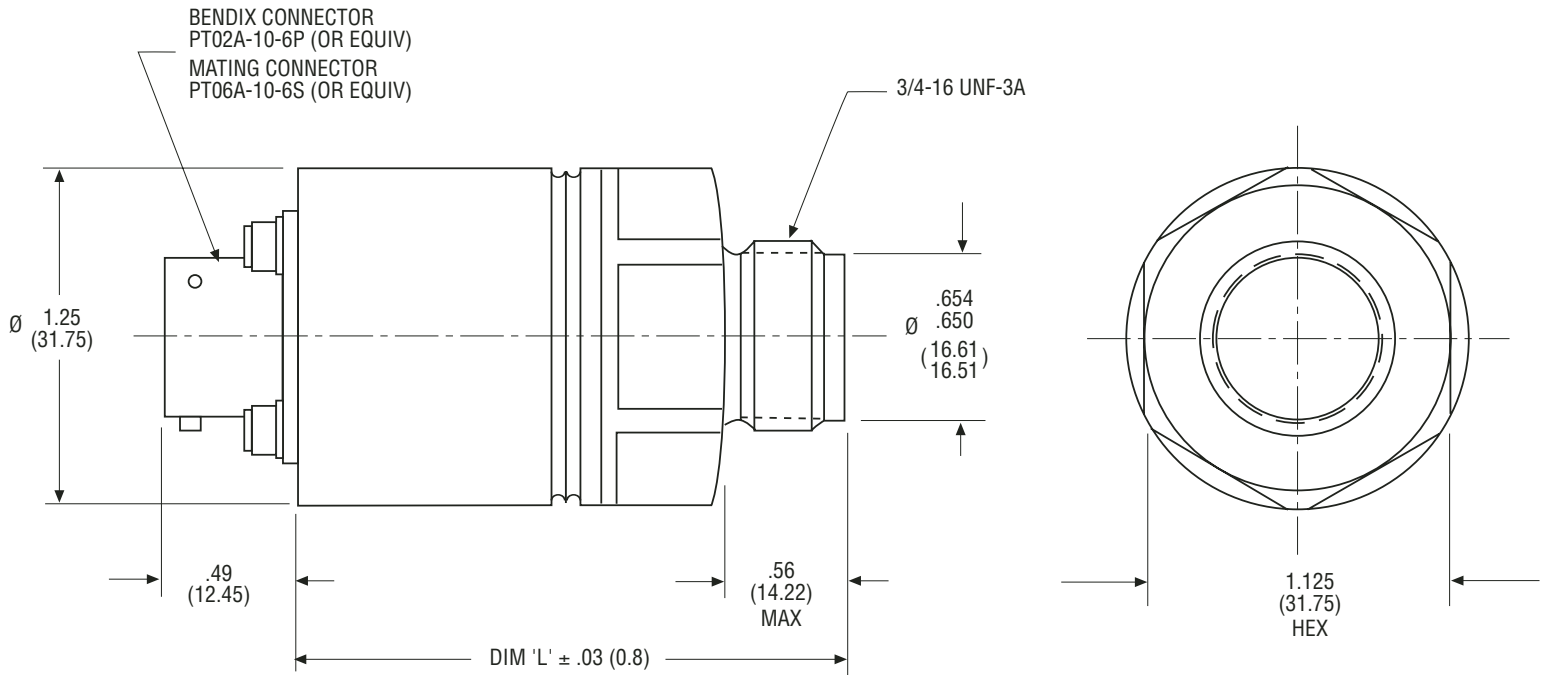
| Performance Characteristics | |
|-----------------------------|--|
| Pressure Range (psi): | 0 - 15, 0 - 25, 0 - 100, 0 - 250, 0 - 500, 0 - 750, 0 - 1,500, 0 - 2,500, 0 - 3,000, 0 - 5,000, 0 - 10,000 |
| Accuracy: | ±0.5% full scale including linearity, hysteresis and repeatability |
| Electrical Characteristics | |
| Full Scale Output: | 3 mV/V minimum |
| Excitation: | 10 Vdc recommended, 12 Vdc maximum |
| Insulation Resistance: | 1,000 megohms @ 50 Vdc |
| Bridge Resistance: | 350 Ohms nominal |
| Internal Shunt Calibration: | 80% full scale ±1.0% |

| Temperature Characteristics | |
|-----------------------------|---|
| Operating Range: | 65° to +250°F (-54°C to +120°C) |
| Compensated Range | 0° to 150°F (-18°C to +66°C) |
| Temperature Effect On Zero: | ±0.01% full scale/°F (±0.018% full scale/°C) |
| Temperature Effect On Span: | ±0.02% full scale/°F (±0.036% full scale/°C) |
| Mechanical Characteristics | |
| Safe Overpressure: | 2 x rated pressure |
| Burst Pressure: | 4 x rated pressure |
| Wetted Material: | 17 - 4 PH stainless steel |
| Cover Material: | 303, 304 stainless steel |
| Pressure Port Seal: | Transducer supplied with DYNASEAL™ (P/N 633014) |
| Weight: | Approximately 5 ounces |

Ordering Guide for PT311JA Pressure Sensors



Dimensions



All dimensions are inches (mm) unless otherwise specified.

| Pressure Ranges (psi) | Dim.L |
|---------------------------|--------------|
| 15 - 250 psia | 2.94 (74.68) |
| 15 - 250 psig | 2.15 (54.61) |
| 500 - 10,000 psia or psig | 2.15 (54.61) |