



PT130, PT140, PT150 & PT160 Hydraulic Pressure Sensors

IDEAL FOR HIGH TEMPERATURE PROCESSES



Description

Dynisco's PT130, PT 140, PT150 & PT160 are designed to measure hydraulic pressure on injection molding machines. The series withstands cyclic pressure and provides outstanding performance under the severe demands of measuring the injection ram and clamp pressure of injection molding machines. Variations in the hydraulic pressure profile indicate irregularities during the injection and feeding stages of the molding operation and provide information about the stability of the injection ram system.

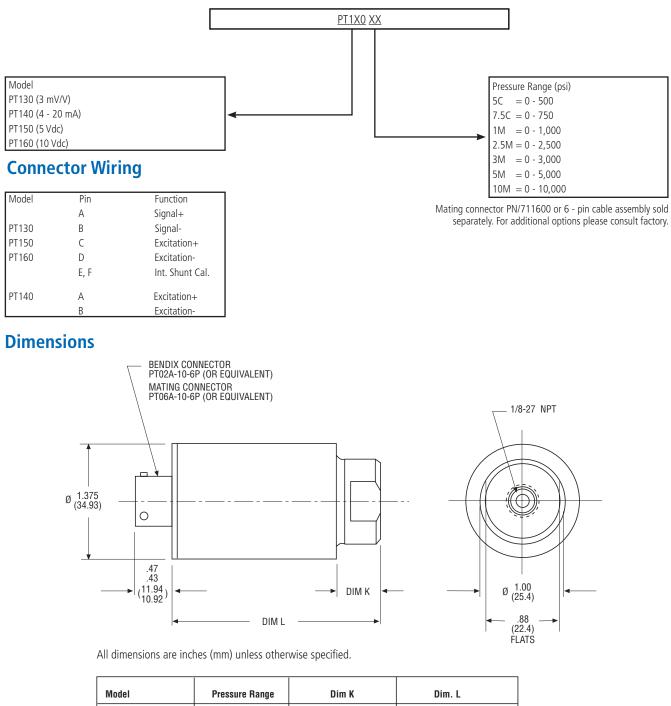
Features

- 3 mV/V output
- Accuracy ±0.50%
- Handles temperatures up to 285°F (140°C)
- All welded, stainless steel construction
- Rugged design
- Internal shunt calibration
- Compact

Performance Characteri	stics			
Pressure Range (psi):	0 - 500, 0 - 750, 0 - 1,000, 0 - 2,500, 0 - 3,000, 0 - 5,000, 0 - 10,000			
Accuracy:	±0.5% full scale including linearity, hysteresis and repeatability			
Full Scale Output:	PT130: 3 mV/V ±1.0% typical (±2.0% maximum) PT140/150/160: 5 Vdc, 10 Vdc, 4 to 20 mA ±1.0% typical (±2.0% maximum)			
Zero Balance:	±1.0% typical (±2.0% maximum)			
Electrical Characteristics				
Input Resistance:	PT130: 420 Ohms ±10%			
Output Resistance:	PT130: 370 Ohms ±10%			
Internal Shunt Calibration:	PT130/150/160: 80% ±0.5% full scale typical (±1.0% maximum)			
Load Resistance:	PT150/160: 2,000 Ohms minimum			
Maximum Loop Resistance:	PT140: 0 to 1,100 Ohms from 14 to 36 Vdc			
Wiring:	Reverse polarity protection of excitation leads			
Output:	Input Voltage:			
3 mV/V	10 Vdc recommended, 15 Vdc maximum			
0 to 5 Vdc (4 - wire)	11 to 32 Vdc, ±12 to ±16 Vdc			
1 to 6 Vdc (3 - wire)	11 to 32 Vdc			
0 to 10 Vdc (4 - wire)	16 to 32 Vdc, ±14 to ±16 Vdc			
1 to 11 Vdc (3 - wire)	16 to 32 Vdc			
4 to 20 mA (2 - wire)	14 to 36 Vdc			

Temperature Characteristics			
Operating Range:	PT130: -65°F to +250°F (-54°C to +120°C) PT140/150/160: -20°F to +185°F (-29°C to +85°C)		
Compensated Range	0°F to +150°F (-18°C to +66°C)		
Temperature Effect On Zero:	Effect On Zero: PT130: ±0.005% full scale/°F (±0.009% full scale/°C) typical (±0.01%/±0.018% maximum); PT140/150/160: ±0.02% full scale/°F (±0.036% 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:	5 x rated pressure		
Wetted Material:	17 - 4 PH, 15 - 5 PH stainless steel		
Cover Material:	303, 304 stainless steel		
Weight:	Approximately 5.5 ounces		

Ordering Guide for PT130, PT140, PT150 & PT160 Series



Model	Pressure Range	Dim K	Dim. L
PT130, PT150, PT160	500 - 10,000	.55 (13.97)/.49 (12.45)	2.55 (64.77)/2.48 (62.99)
PT140	500 - 10,000	.58 (14.73)/.52 (13.21)	3.78 (96.01)/3.71 (94.23)