

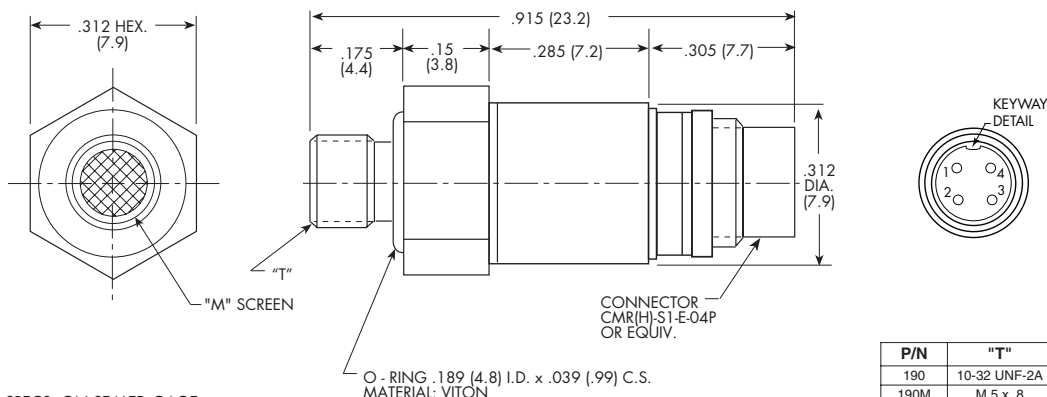


RUGGEDIZED AUTOMOTIVE IS® PRESSURE TRANSDUCERS

XTL-HA142C-190 (M) SERIES

- Easy Installation With Integral Connector
- High Natural Frequency
- 10-32 UNF or M 5 x .8 Thread
- Wide Temperature Range
- Compatible With Most Automotive Fluids
- High Accuracy
- Patented Leadless Technology **VIS®**

**HIGH
ACCURACY**



INPUT Pressure Range	1.0 15	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	140 2000	210 BAR 3000 PSI
Operational Mode	Absolute, Sealed Gage, Gage					Absolute, Sealed Gage			
Over Pressure	2 Times Rated Pressure to a Maximum of 4500 PSI (315 BAR)								
Burst Pressure	3 Times Rated Pressure to a Maximum of 4500 PSI (315 BAR)								
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)								
Rated Electrical Excitation	10 VDC								
Maximum Electrical Excitation	15 VDC								
Input Impedance	1000 Ohms (Min.), 5000 Ohms (Max.)								
OUTPUT Output Impedance	2000 Ohms (Max.)								
Full Scale Output (FSO)	100 mV ± 10mV								
Residual Unbalance	± 5 mV (Typ.)								
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.3% FSO (Max.)								
Resolution	Infinitesimal								
Natural Frequency (KHz) (Typ.)	Greater Than 175 KHz								
Acceleration Sensitivity % FS/g Perpendicular Transverse	6.5x10 ⁻⁴ 1.0x10 ⁻⁴	5.0x10 ⁻⁴ 6.0x10 ⁻⁵	3.0x10 ⁻⁴ 4.0x10 ⁻⁵	1.5x10 ⁻⁴ 2.0x10 ⁻⁵	1.0x10 ⁻⁴ 9.0x10 ⁻⁶	6.0x10 ⁻⁵ 6.0x10 ⁻⁶	4.5x10 ⁻⁵ 3.0x10 ⁻⁶	2.0x10 ⁻⁵ 3.0x10 ⁻⁶	2.0x10 ⁻⁵ 2.0x10 ⁻⁶
Insulation Resistance	100 Megohm Min. @ 50 VDC								
ENVIRONMENTAL Operating Temperature Range	-65°F to +400°F (-55°C to +204°C)								
Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)								
Total Error Band Over Compensated Temperature Range, BFSL	± 2% FS, Includes Thermal Sensitivity Shift, Thermal Zero Shift And Static Error Band Over Compensated Temperature Range (Typ.)								
Linear Vibration	100g Peak, Sine Up to 5000 Hz								
Humidity	100% Relative Humidity								
Mechanical Shock	100g half Sine Wave 11 msec. Duration								
PHYSICAL Electrical Connection	Connector CMR(H)-S1-E-04P or Equivalent (Mating Connector Available Upon Request)								
Weight	5 Grams (Nom.) Excluding Cable								
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology								
Mounting Torque	15 Inch-Pounds								

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (H)

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