

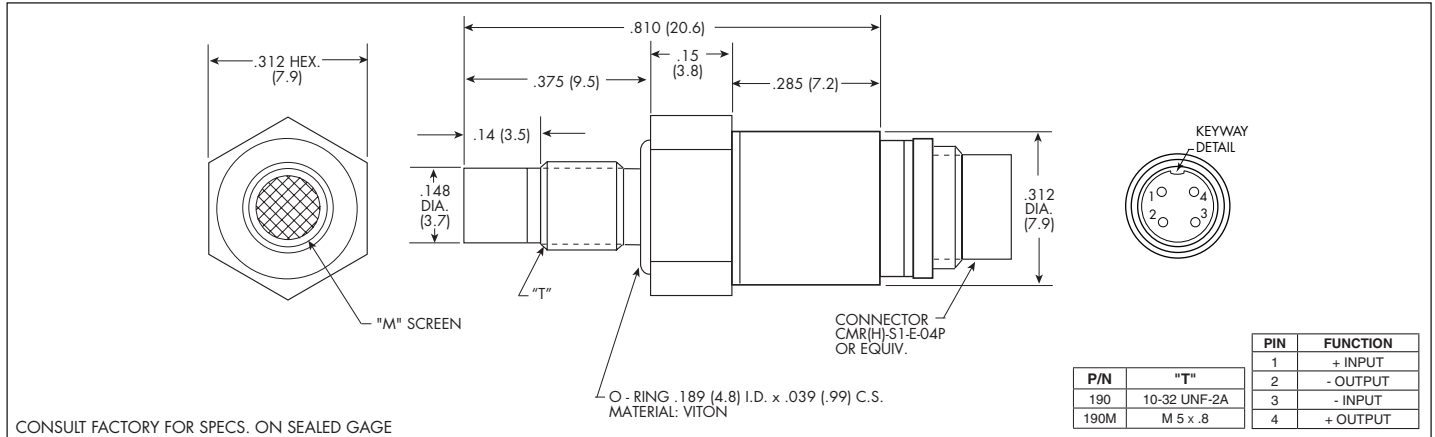


**RUGGEDIZED AUTOMOTIVE IS®
PRESSURE TRANSDUCERS**

XTL-HA142B-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. (D)