



RUGGEDIZED AUTOMOTIVE PRESSURE TRANSDUCERS

XTL-HA-142G-190 (M) SERIES

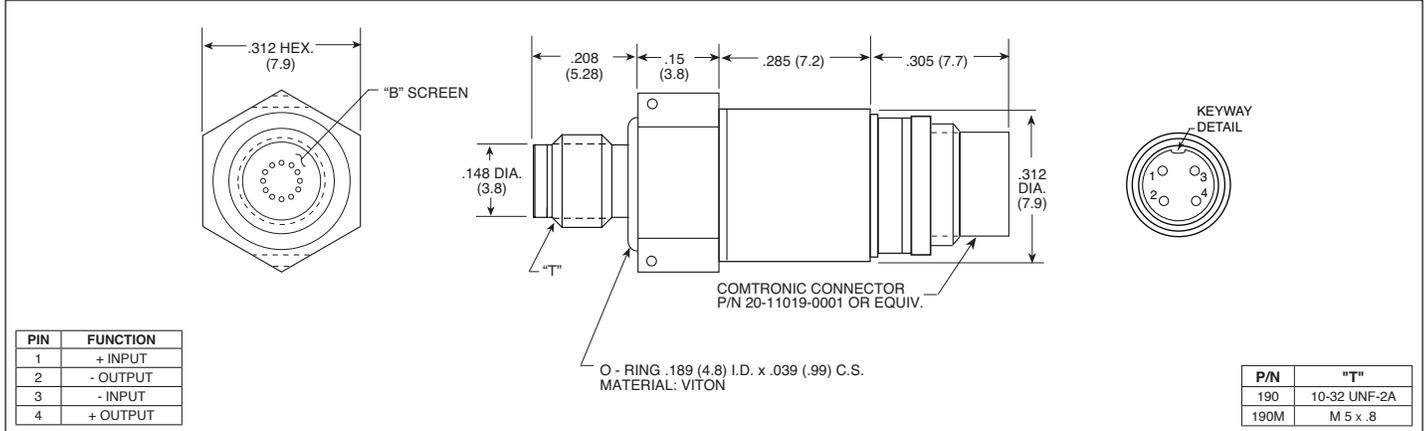
- Easy Installation With Integral Connector
- High Natural Frequency
- 10-32 UNF or M 5 x .8 Thread
- Wide Temperature Range
- Compatible With Most Automotive Fluids
- High Accuracy
- Patented Leadless Technology **VIS**[®]

HIGH ACCURACY



Part performance not guaranteed if used in water.

Kulite recommends the **KSC-2** signal conditioner to maximize the measurement capability of the XTL-HA-142G-190 transducer.



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		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	12 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 of Sensor Without Screen (KHz) (Typ.)	Greater Than 175 KHz									
	Acceleration Sensitivity % FS/g Perpendicular	6.5x10 ⁻⁴	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.5x10 ⁻⁵	2.0x10 ⁻⁵	2.0x10 ⁻⁵	
	Insulation Resistance	100 Megohm Min. @ 50 VDC									
ENVIRONMENTAL	Operating Temperature Range	-40°F to +390°F (-40°C to +200°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	20g Peak, Sine 10 to 2000 Hz									
	Mechanical Shock	20g Half Sine Wave 11 msec. Duration									
PHYSICAL	Electrical Connection	Comtronic Connector P/N 20-11019-0001 or Equivalent (Mating Connector Available Upon Request)									
	Weight	5 Grams (Nom.)									
	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. All dimensions nominal. (F) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2016 Kulite Semiconductor Products, Inc. All Rights Reserved. Kulite miniature pressure transducers are intended for use in test and research and development programs and are not necessarily designed to be used in production applications. For products designed to be used in production programs, please consult the factory.