

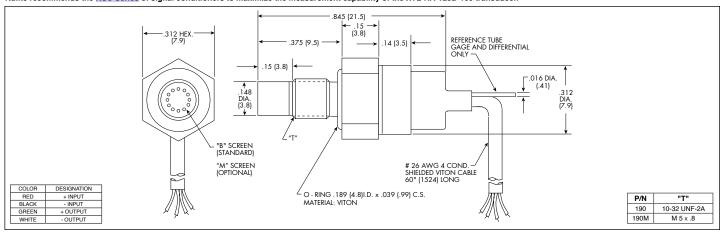
XTL-HA-123B-190 (M) SERIES

- Easy Installation
- · 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



Kulite recommends the KSC Series of signal conditioners to maximize the measurement capability of the XTL-HA-123B-190 transducer.



	Pressure Range	1.0 15	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	210 BAR 3000 PSI		
INPUT	Operational Mode	Absolute, Gage, Differential	Gage, Absolute, Sealed Gage, Gage, Differential					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 ± 10 mV									
	Residual Unbalance	± 5 mV (Typ.)									
	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% 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		
	Insulation Resistance	100 Megohm Min. @ 50 VDC									
ENVIRONMENTAL	Operating Temperature Range	-40°F to +350°F (-40°C to +175°C)									
	Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)									
	Total Error Band Over Compensated Temperature Range	± 2% FS BFSL, 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									
Ë	Mechanical Shock	100g half Sine Wave 11 msec. Duration									
	Electrical Connection	4 Conductor 26 AWG Shielded Viton Cable 60" Long									
PHYSICAL	Weight	5 Grams (Nom.) Excluding Cable									
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology									
ᆸ	Mounting Torque	15 Inch-Pounds									
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Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (Y) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 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.

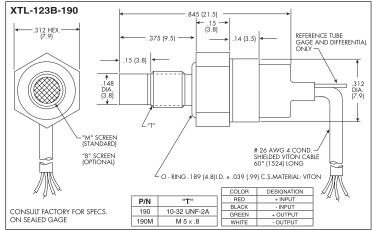


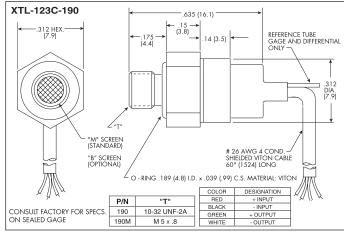
RUGGEDIZED AUTOMOTIVE IS® PRESSURE TRANSDUCERS

XTL-123B-190 (M) SERIES XTL-123C-190 (M) SERIES

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







INPUT Pressure Range	1.0 15	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	100 1500	210 BAR 3000 PSI	
Operational Mode	Absolute, Sealed Gage, Gage, Differential 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 ± 10 mV									
Residual Unbalance	± 5mV (Typ.)									
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% 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	3.5x10 ⁻⁵ 2.7x10 ⁻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)									
Thermal Zero Shift	± 1% FS/100°F (Typ.)									
Thermal Sensitivity Shift	± 1% /100°F (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	4 Conductor 26 AWG Shielded Viton Cable 60" Long									
Weight				5 Grams	(Nom.) Exclud	ing Cable				
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology									
Mounting Torque	15 Inch-Pounds									