



MINIATURE RUGGEDIZED PRESSURE TRANSDUCER

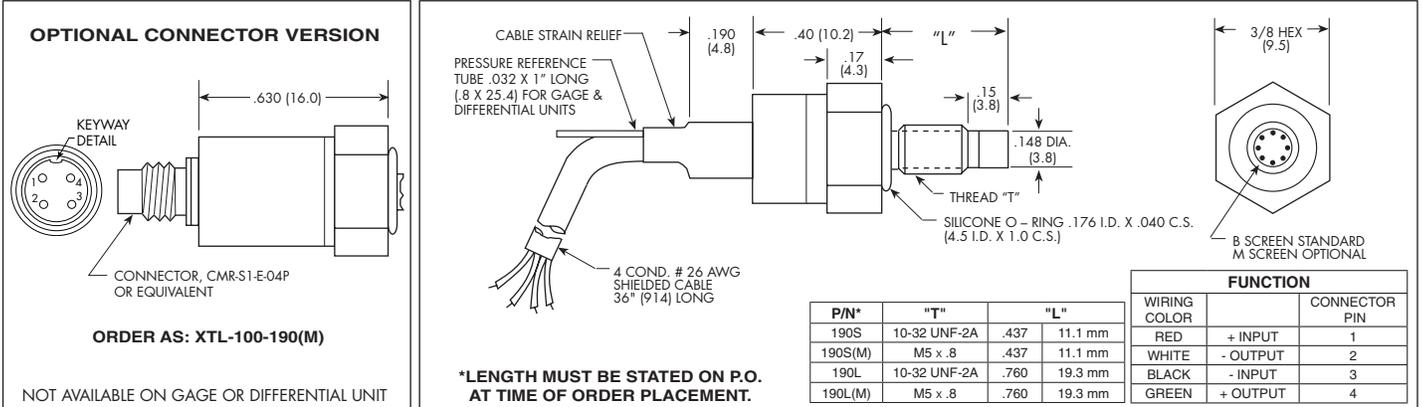
XTL-190 (M) SERIES

- Easy Installation
- Patented Leadless Technology VIS®
- High Natural Frequency

The ruggedness of this sensor has not compromised its performance. It was designed for ease of installation and will operate properly in any medium compatible with 15-5 SS or SiO₂. Its Patented Leadless construction makes it possible for the sensing unit to be installed in such a way that will not compromise its high natural frequency.



Kulite recommends the signal conditioner to maximize the measurement capability of the XTL-190 transducer.



	Pressure Range										
	0.7 10	1.0 15	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	140 2000	BAR PSI	
INPUT	Operational Mode		Absolute, Gage, Differential			Absolute, Gage, Sealed Gage, Differential		Absolute, Sealed Gage			
	Over Pressure		2 Times Rated Pressure to a Maximum of 3000 PSI (210 BAR)								
	Burst Pressure		3 Times Rated Pressure to a Maximum of 5000 PSI (350 BAR)								
	Pressure Media		Most Conductive Liquids and Gases - Please Consult Factory (All Media May Not Be Suitable With O-Ring Supplied)								
	Rated Electrical Excitation		10 VDC/AC								
	Maximum Electrical Excitation		12 VDC/AC								
	Input Impedance		1000 Ohms (Min.)								
OUTPUT	Output Impedance		1000 Ohms (Nom.)								
	Full Scale Output (FSO)		100 mV (Nom.)								
	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.)		175	200	240	300	380	550	700	1000	1400
	Acceleration Sensitivity % FS/g Perpendicular		1.0x10 ⁻³	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		-65°F to +350°F (-55°C to +175°C)								
	Compensated Temperature Range		+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request								
	Thermal Zero Shift		± 1% FS/100°F (Typ.)								
	Thermal Sensitivity Shift		± 1% /100°F (Typ.)								
	Steady Acceleration		10,000g. (Max.)								
	Linear Vibration		10-2,000 Hz Sine, 100g. (Max.)								
PHYSICAL	Electrical Connection		4 Conductor 26 AWG Shielded Cable 36" Long								
	Weight		4 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 (Max.) 1.7 Nm								

Note: Custom pressure range
Continuous development and refl
Kulite miniature pressure transducers are intended for use in
designed to be used in production programs, please consult the factory.

All dimensions nominal. (N)
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