

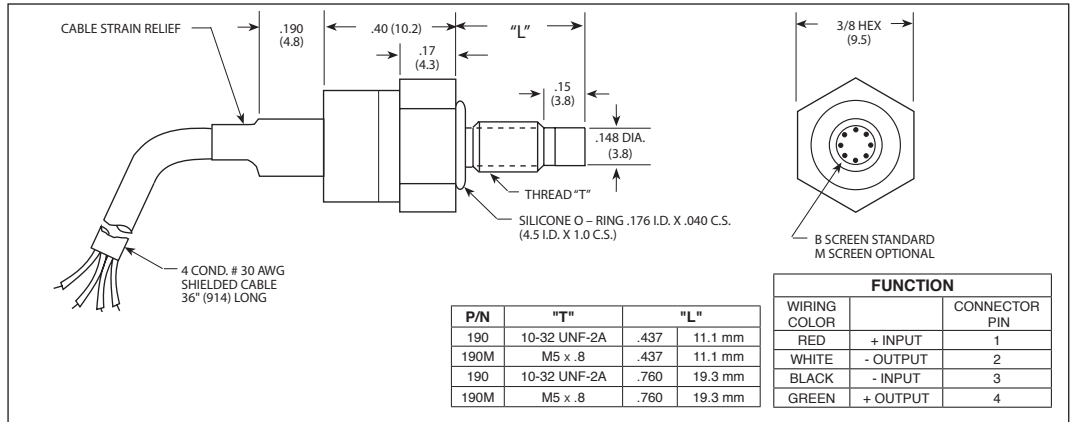
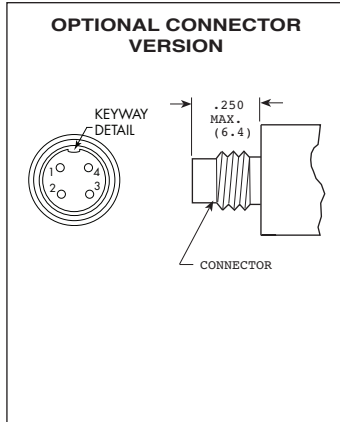
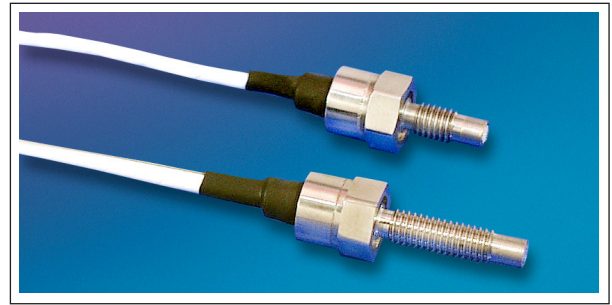


MINIATURE RUGGEDIZED IS® PRESSURE TRANSDUCER

XTL-AC-190 (M) SERIES

- Acceleration/Vibration Insensitive Design VIS²®
- High Natural Frequency
- Easy Installation

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. The XTL-AC-190 incorporates the latest Kulite patented and patent pending technologies in pressure sensor development. One of these patented innovative technologies makes the XTL-AC-190 insensitive to acceleration forces.



INPUT	Pressure Range	3.5 50	7 100	17 250	35 500
	Operational Mode	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 or 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 (KHz) (Typ.)	240	300	380	550
	Acceleration Sensitivity % FS/g Perpendicular Transverse	N/A <<1x10 ⁻⁶			
	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	10,000 g. (Max.)			
	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)			
PHYSICAL	Electrical Connection	4 Conductor 30 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.)			

Note: Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. Continuous development and refinement of our products may result in specification changes (P) without notice. Copyright © 2018 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.