

XTL-163-190 (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
- Patented Leadless Technology VIS®

Part performance not guaranteed if used in water.

 $Kulite\ recommends\ the\ \underline{KSC\ Series}\ of\ signal\ conditioners\ to\ maximize\ the\ measurement\ capability\ of\ the\ XTL-163-190\ transducer.$



PIN FUNCTION "M" SCREE	.325 (8.25) — .325 (8.25) — .135 — .157 (3.9) .148 DIA. (3.7)	COMTRONIC	*	273 DIA. (6.9)	KEYWAY DETAIL	
1 + INPUT 2 - OUTPUT 3 - INPUT 4 + OUTPUT	_	O - RING .147 (3.7) I.D. : MATERIAL: VITON	c.040 (1.0) C.S.			P/N "T" 190 10-32 UNF-2A 190M M 5 x .8
	17	3.5	7	17	35	70 210 BAR

	Pressure Range	1.0 15	1.7 25	3.5 50	7	17 250	35 500	70 1000	210 BAR 3000 PSI		
INPUT	Operational Mode	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	Most Conductive Liquids and Gases - Please Consult Factory (All Media May Not Be Suitable With O-Ring Supplied)									
	Rated Electrical Excitation	10 VDC									
	Maximum Electrical Excitation	12 VDC									
	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.)	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									
7	Operating Temperature Range	-65°F to +400°F (-55°C to +204°C)									
ENVIRONMENTAL	Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)									
M	Thermal Zero Shift	± 1% FS/100°F (Typ.)									
ő	Thermal Sensitivity Shift	± 1% /100°F (Typ.)									
Ĭ	Mechanical Shock	20g Half Sine Wave 11 msec. Duration									
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz									
۲	Electrical Connection	Comtronic Connector P/N 20-11019-0001 or Equivalent (Mating Connector Available Upon Request)									
CA	Weight	5 Grams (Nom.)									
PHYSICAL	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology									
<u>a</u>	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. (Q) 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.