

XTL-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
- Patented Leadless Technology VIS®

Part performance not guaranteed if used in water.

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



	├ ──.3	12 HEX. (7.9)	.15 (3.8)	.845 (2 375 (9.5) —	1.5) 1.5 → 3.8) .14 (3.5)	REFERENC GAGE AN ONLY	E TUBE ID DIFFERENTIAL				
			148 DIA. (3.8)					5 DIA. 41) .312 DIA. (7.9)			
	OLOR DESIGNATION RED + INPUT		Z # SCREEN NDARD) CREEN ONAL)		SHIE 60"	AWG 4 COND. — LDED VITON CABLE (1524) LONG S.			P/N	птп	
0	HELD								10-32 UNF-2A		
	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, Gage, Differential Absolute, Sealed Gage, Gage, Differential Absolute, S						ealed Gage			
5	Over Pressure		2 Times Rate	ed Pressure to	500 PSI (35 BA	AR), 1.5 Times	Rated Pressu	ire Above 500 F	PSI (35 BAR)		
INPUT	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 Impedance	2000 Ohms (Max.)									
	Full Scale Output (FSO)	100 mV ± 10 mV									
	Residual Unbalance	± 5mV (Typ.)									
5	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)									
OUTPUT	Resolution	Infinitesimal									
5	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	3.5x10 ⁻⁵	2.0x10 ⁻⁵	
	Insulation Resistance	100 Megohm Min. @ 50 VDC									
AL	Operating Temperature Range	-40°F to +390°F (-40°C to +200°C)									
ENTAL	Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)									
	Thermal Zero Shift	± 1% FS/100°F (Typ.)									
RO	Thermal Sensitivity Shift					1% /100°F (Typ					
ENVIRONM	Linear Vibration	20g Peak, Sine 10 to 2000 Hz									
ш	Mechanical Shock	20g Half Sine Wave 11 msec. Duration									
PHYSICAL	Electrical Connection	4 Conductor 26 AWG Shielded Viton Cable 60" Long									
	Weight	5 Grams (Nom.) Excluding Cable									
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology									
	Mounting Torque				1	5 Inch-Pounds	3				

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (CC) 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.



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312 HEX. (7.9) "B" SCREEN "B" SCREEN "B" SCREEN "B" SCREEN "B" SCREEN "B" SCREEN "T" "T" BLACK INPUT BLACK INPUT GREEN + OUTPUT "T" BLACK INPUT GREEN + OUTPUT "T" COLOR DESIGNATION RED + INPUT BLACK INPUT BLACK INPUT GREEN + OUTPUT WHITE - OUTPUT "T" 15 (3.8) 14 (3.5) .750 NOM. (19.05) .5 NOM. (12.7) .016 DIA. (.41) .750 NOM. (19.05) .5 NO										
	Pressure Range	1.0 1.7 3.5 7 17 35 70 100 210 BAR 15 25 50 100 250 500 1000 1500 3000 PSI								
	Operational Mode	Absolute, Gage, Differential Absolute, Sealed Gage, Differential Absolute, Sealed Gage								
5	Over Pressure	2 Times Rated Pressure to 500 PSI (35 BAR), 1.5 Times Rated Pressure Above 500 PSI (35 BAR)								
INPUT	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 Impedance	2000 Ohms (Max.)								
	Full Scale Output (FSO)	100 mV ± 10 mV								
	Residual Unbalance	± 5mV (Typ.)								
OUTPUT	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)								
5	Resolution	Infinitesimal								
0	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 3.5x10 ⁻⁵ 2.0x10 ⁻⁵								
	Insulation Resistance	100 Megohm Min. @ 50 VDC								
4	Operating Temperature Range	-40°F to +390°F (-40°C to +200°C)								
ENVIRONMENTAL	Compensated Temperature Range	-40°F to +350°F (-40°C to +176°C)								
	Thermal Zero Shift	± 1% FS/100°F (Typ.)								
	Thermal Sensitivity Shift	± 1% /100°F (Typ.)								
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz								
	Mechanical Shock	20g Half Sine Wave 11 msec. Duration								
_	Electrical Connection	4 Conductor 26 AWG Shielded Viton Cable 40" (1,0) 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								
ᅕ	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. (I) 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.



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	-312 H (7.9)									
	Pressure Range	1.0 1.7 3.5 7 17 35 70 100 210 BAR 15 25 50 100 250 500 1000 1500 3000 PSI								
	Operational Mode	Absolute, Sealed Gage, Gage, Differential Absolute, Sealed Gage								
	Over Pressure	2 Times Rated Pressure to 500 PSI (35 BAR), 1.5 Times Rated Pressure Above 500 PSI (35 BAR)								
F	Burst Pressure	3 Times Rated Pressure to a Maximum of 4500 PSI (315 BAR)								
INPUT	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 Impedance	2000 Ohms (Max.)								
	Full Scale Output (FSO)	100 mV ± 10 mV								
	Residual Unbalance	± 5mV (Typ.)								
5	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)								
OUTPUT	Resolution	Infinitesimal								
ō	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 3.5x10 ⁻⁵ 2.0x10 ⁻⁵								
	Insulation Resistance	100 Megohm Min. @ 50 VDC								
A L	Operating Temperature Range	-65°F to +390°F (-55°C to +200°C)								
ENTAI	Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)								
_	Thermal Zero Shift	± 1% FS/100°F (Typ.)								
ő	Thermal Sensitivity Shift	± 1% /100°F (Typ.)								
ENVIRONN	Linear Vibration	20g Peak, Sine 10 to 2000 Hz								
□	Mechanical Shock	20g Half Sine Wave 11 msec. Duration								
PHYSICAL	Electrical Connection	4 Conductor 30 AWG Shielded Cable or 4 Conductor 26 AWG Shielded Cable 60" Long								
	Weight	5 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								

—.730 (18.5)_. —

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