

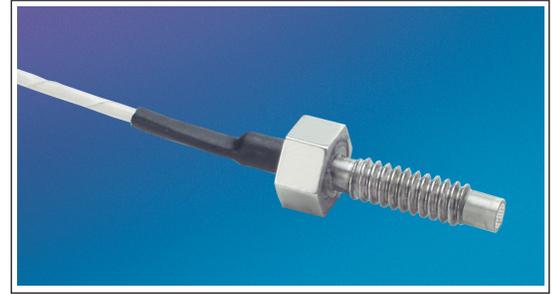


SUBMINIATURE PRESSURE TRANSDUCER

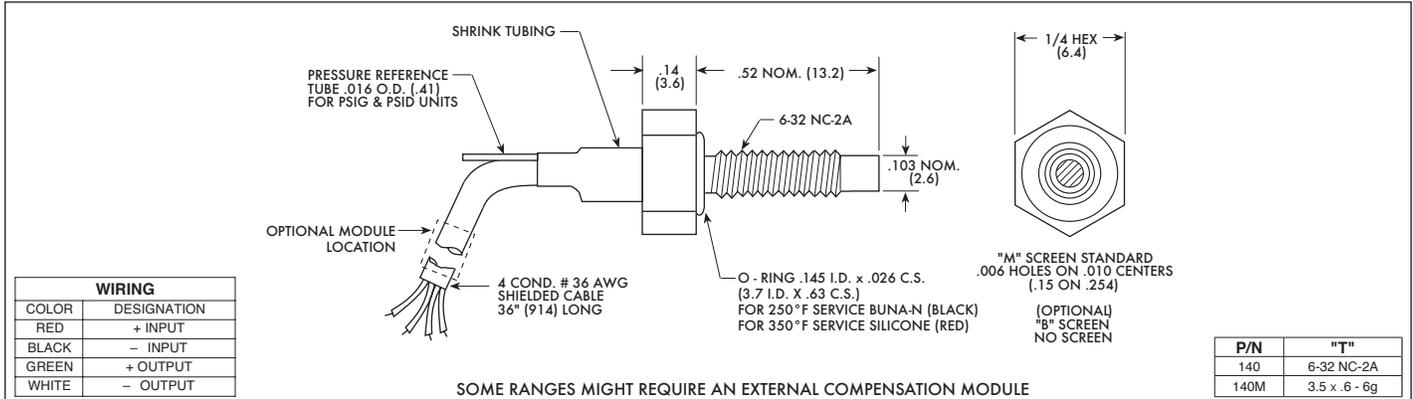
XT-140 (M) SERIES

- Easy Installation
- Smallest Threaded Device Available
- Patented Silicon on Silicon Integrated Sensor **VIS®**
- High Natural Frequency

The XT-140 Series uses a standard miniature silicon diaphragm to obtain extremely high natural frequencies in the smallest thread mount available.



Kulite recommends the **KSC Series** of signal conditioners to maximize the measurement capability of the XT-140 transducer.



INPUT	Pressure Range	.35 5	0.7 10	1.0 15	1.7 BAR 25 PSI
	Operational Mode	Absolute, Gage, Differential		Absolute, Gage, Sealed Gage, Differential	
	Over Pressure	2 Times Rated Pressure			
	Burst Pressure	3 Times Rated Pressure			
	Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (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.)	150	175	200	240
	Acceleration Sensitivity % FS/g Perpendicular	1.5x10 ⁻³	1.0x10 ⁻³	6.5x10 ⁻⁴	5.0x10 ⁻⁴
	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.)			
PHYSICAL	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)			
	Electrical Connection	4 Conductor 36 AWG Cable 36" Long			
	Weight	3 Grams (Nom.) Excluding Cable			
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon			
	Mounting Torque	15 Inch-Pounds (Max.) 1.7 Nm			

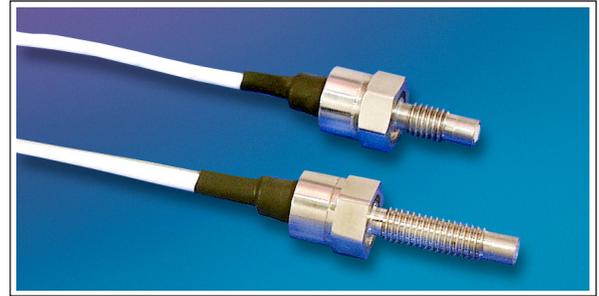
Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (M) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 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.



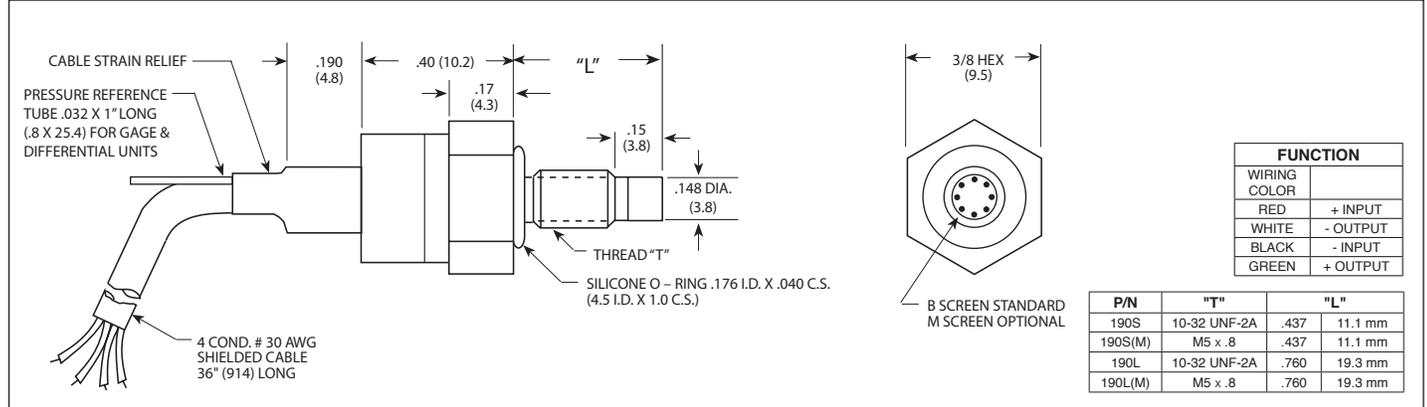
**MINIATURE RUGGEDIZED
PRESSURE TRANSDUCER
XT-190 (M) SERIES**

- Easy Installation
- Silicon on Silicon Integrated Sensor **VIS®**
- High Natural Frequency

The ruggedness of this sensor has not compromised its performance. It was designed for ease of installation.



Kulite recommends the **KSC Series** of signal conditioners to maximize the measurement capability of the XT-190 transducer.



INPUT	Pressure Range	0.35 5	0.7 10	1 15	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	140 BAR 2000 PSI		
	Operational Mode	Absolute, Gage, Differential			Absolute, Gage, Sealed 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)											
	Burst Pressure	3 Times Rated Pressure to a Maximum of 5000 PSI (350 BAR)											
	Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (All Media May Not Be Suitable With O-Ring Supplied)											
	Rated Electrical Excitation	10 VDC/AC											
OUTPUT	Maximum Electrical Excitation	12 VDC/AC											
	Input Impedance	1000 Ohms (Min.)											
	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.)	150	175	200	240	300	380	550	700	1000			
	Acceleration Sensitivity % FS/g Perpendicular	1.5x10 ⁻³	1.0x10 ⁻³	6.5x10 ⁻⁴	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.5x10 ⁻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.)											
PHYSICAL	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)											
	Electrical Connection (Standard)	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											
Mounting Torque	15 Inch-Pounds (Max.) 1.7 Nm												

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (S) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2017 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.