

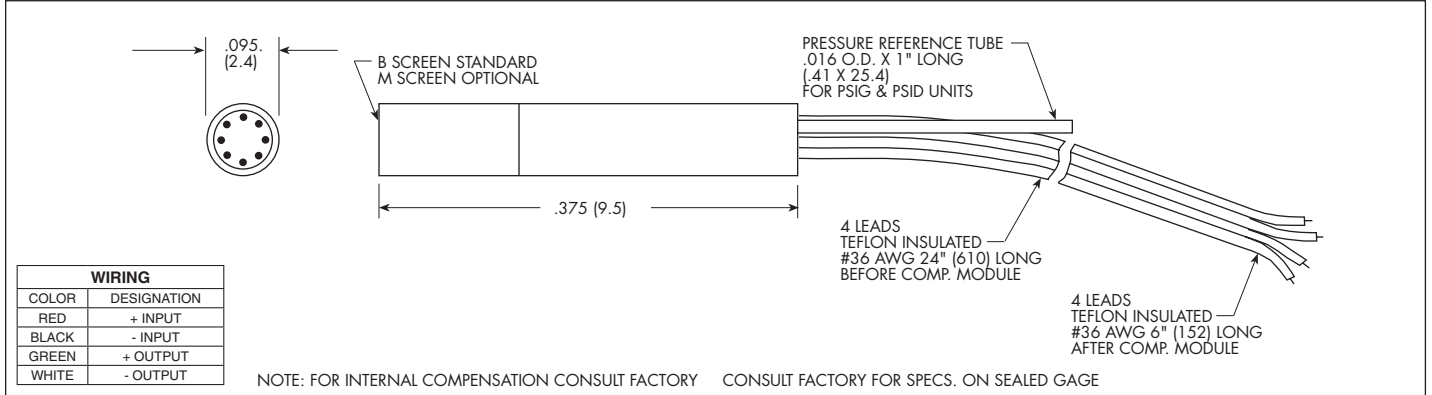
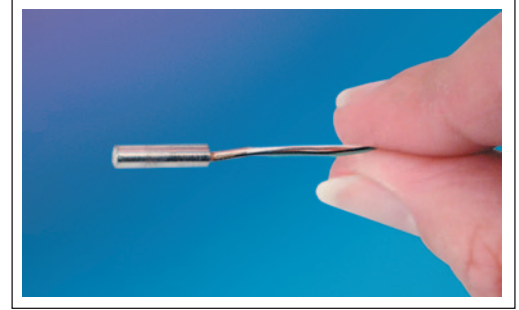


HIGH SENSITIVITY MINIATURE IS® PRESSURE TRANSDUCER

XCS-093 SERIES

- High Sensitivity
- Silicon on Silicon Integrated Sensor VIS®
- High Signal To Noise Ratio
- Static And Dynamic Capability
- Wide Dynamic Range

The XCS Series uses a diaphragm of advanced design which gives a substantially higher basic output allowing for high mV/psi sensitivities and improved signal to noise ratio.



INPUT	0.35	1.0	1.7	3.5 BAR
Pressure Range	5	15	25	50 PSI
Operational Mode	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			
Rated Electrical Excitation	10 VDC/AC			
Maximum Electrical Excitation	12 VDC/AC			
Input Impedance	1000 Ohms (Min.)			
OUTPUT	1000 Ohms (Nom.)			
Output Impedance	1000 Ohms (Nom.)			
Full Scale Output (FSO)	150 mV (Nom.) 50 mV (Nom.) for SG	200 mV (Nom.) 100 mV (Nom.) for SG	200 mV (Nom.) 100 mV (Nom.) for SG	200 mV (Nom.) 100 mV (Nom.) for SG
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.)	150	200	240	300
Acceleration Sensitivity % FS/g				
Perpendicular	1.5x10 ⁻³	6.5x10 ⁻⁴	5.0x10 ⁻⁴	3.0x10 ⁻⁴
Transverse	2.2x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.0x10 ⁻⁵
Insulation Resistance	100 Megohm Min. @ 50 VDC			
ENVIRONMENTAL				
Operating Temperature Range	-65°F to +250°F (-55°C to +120°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 Leads 36 AWG 36" Long			
Weight	.4 Gram (Nom.) Excluding Module and Leads			
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon			

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.

Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (I)