



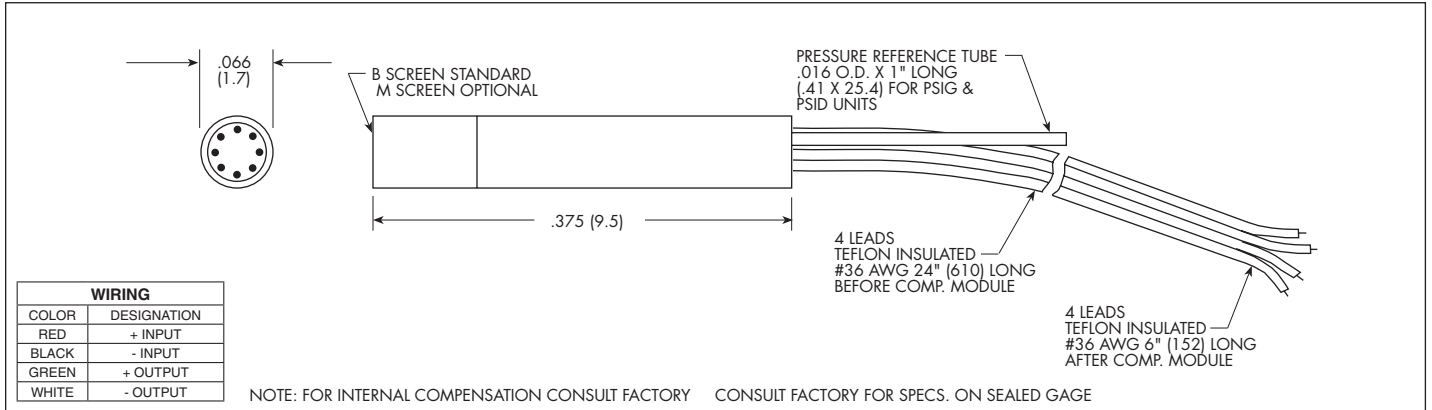
HIGH SENSITIVITY ULTRAMINIATURE IS® PRESSURE TRANSDUCER

XCS-062 SERIES

- High Sensitivity
- Silicon on Silicon Integrated Sensor VIS®
- Superior 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	0.7	1.0 BAR
Pressure Range	5	10	15 PSI
Operational Mode	Absolute, Gage, Sealed Gage, Differential		
Over Pressure	2 Times Rated Pressure With No Change in Calibration		
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)	125 mV (Nom.) 50 mV (Nom.) for SG	125 mV (Nom.) 50 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	175	200
Acceleration Sensitivity % FS/g Perpendicular	1.5x10 ⁻³	1.0x10 ⁻³	7.0x10 ⁻⁴
Transverse	2.2x10 ⁻⁴	1.0x10 ⁻⁴	9.0x10 ⁻⁵
Insulation Resistance	100 Megohm Min. @ 50 VDC		
ENVIRONMENTAL	-65°F to +250°F (-55°C to +120°C)		
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	10-20,000 Hz Sine, 100g. (Max.)		
PHYSICAL	4 Leads 36 AWG 30" Long		
Electrical Connection	4 Leads 36 AWG 30" Long		
Weight	.2 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. (K)