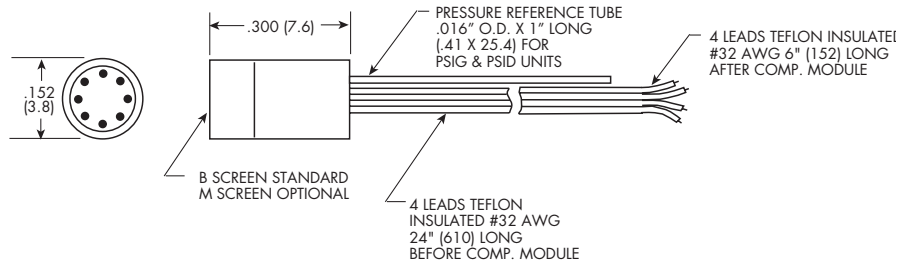
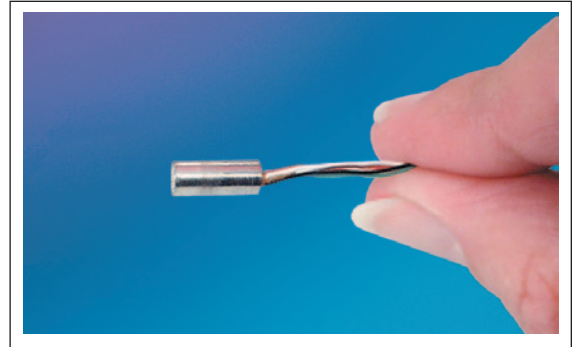


## HIGH SENSITIVITY MINIATURE SHORT LENGTH IS® PRESSURE TRANSDUCER

### XCS-152 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.



WIRING	
COLOR	DESIGNATION
RED	+ INPUT
BLACK	- INPUT
GREEN	+ OUTPUT
WHITE	- OUTPUT

NOTE: FOR INTERNAL COMPENSATION CONSULT FACTORY CONSULT FACTORY FOR SPECS. ON SEALED GAGE

<b>INPUT</b>				
Pressure Range	0.35 5	1.0 15	1.7 25	3.5 BAR 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.)			
<b>OUTPUT</b>				
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 <sup>-3</sup>	6.5x10 <sup>-4</sup>	5.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>
Transverse	2.2x10 <sup>-4</sup>	1.0x10 <sup>-4</sup>	6.0x10 <sup>-5</sup>	4.0x10 <sup>-5</sup>
Insulation Resistance	100 Megohm Min. @ 50 VDC			
<b>ENVIRONMENTAL</b>				
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.)			
<b>PHYSICAL</b>				
Electrical Connection	4 Leads 32 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 are in inches (25.4 mm)