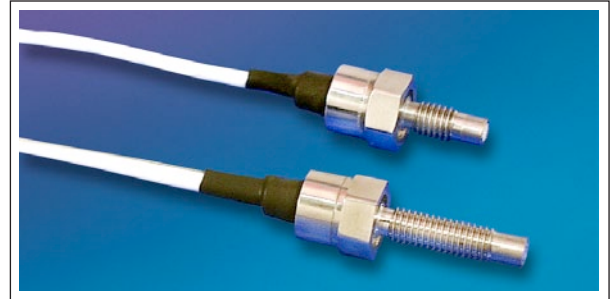




## MINIATURE HIGH SENSITIVITY IS® PRESSURE TRANSDUCER

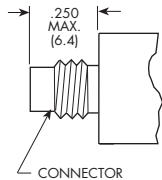
### XCS-190 (M) SERIES

- High Output
- Silicon on Silicon Integrated Sensor VIS®
- High Natural Frequency

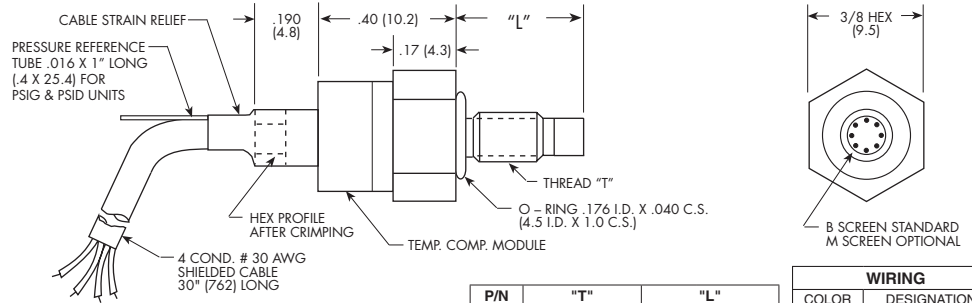


The XCS Series uses a diaphragm of advanced design which gives a substantially higher basic output allowing for high mV/psi sensitivities and improved signal to noise ratio.

#### OPTIONAL CONNECTOR VERSION



NOT AVAILABLE ON DIFFERENTIAL UNIT



CONSULT FACTORY FOR SPECS. ON SEALED GAGE

P/N	"T"		"L"
190	10-32 UNF-2A	.437	11.1 mm
190M	M5 x .8	.437	11.1 mm
190	10-32 UNF-2A	.760	19.3 mm
190M	M5 x .8	.760	19.3 mm

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

<b>INPUT</b> Pressure Range	0.35 5	0.7 10	1.0 BAR 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.)		
<b>OUTPUT</b> Output Impedance	1000 Ohms (Nom.)		
Full Scale Output (FSO)	150 mV (Nom.) 50 mV (Nom.) for SG	150 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 Transverse	1.5x10 <sup>-3</sup> 2.2x10 <sup>-4</sup>	1.0x10 <sup>-3</sup> 1.0x10 <sup>-4</sup>	7.0x10 <sup>-4</sup> 9.0x10 <sup>-5</sup>
Insulation Resistance	100 Megohm Min. @ 50 VDC		
<b>ENVIRONMENTAL</b> 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.)		
Linear Vibration	10-20,000 Hz Sine, 100g. (Max.)		
<b>PHYSICAL</b> Electrical Connection	4 Conductor 30 AWG Shielded Cable 30" Long		
Weight	4 Grams (Nom.) Excluding Module and Leads		
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon		
Mounting Torque	15 Inch-Pounds (Max.)		

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

Continuous development of our products can result in specific performance improvements. SUNSTAR 自动化 <http://www.sensor-ic.com/> TEL: 0755-83376489 FAX: 0755-83376182 E-MAIL: szss20@163.com