



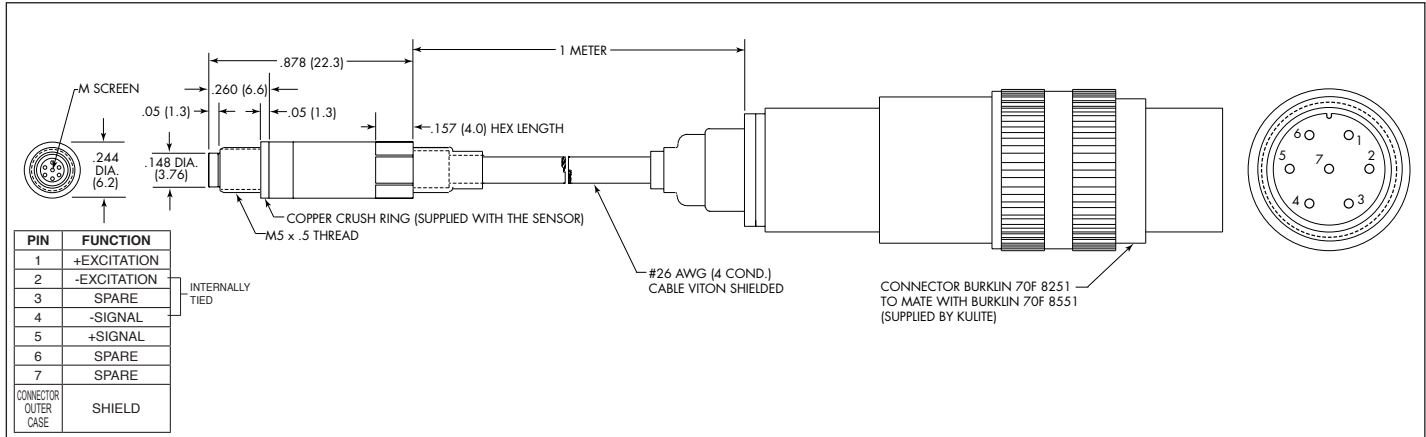
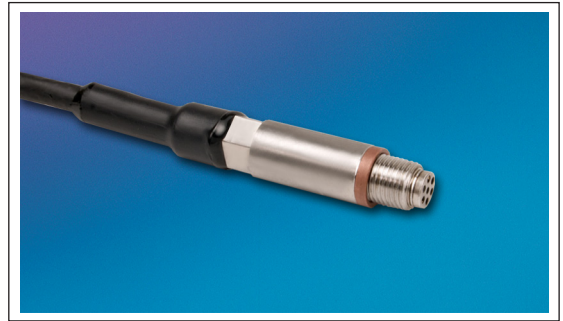
MINIATURE AUTOMOTIVE 5VDC OUTPUT PRESSURE TRANSDUCER INLET PRESSURE TRANSDUCER

ETL-184(X)-190M SERIES

- High Bandwidth With Integrated Amplifier
- Excellent Long Term Stability Coupled With High Accuracy
- Patented Leadless Technology **VIS**[®]
- Robust Construction
- RoHS Compliant

The ETL-184 Series results in a highly stable, reliable, and rugged instrument with all the advantages of microcircuitry: significant miniaturization, excellent repeatability, low power consumption, etc. The miniaturization process also yields a marked increase in the natural frequencies of the transducers. It is small, versatile, and requires no additional signal conditioning.

Part performance not guaranteed if used in water.



	ETL-184A-190M	ETL-184B-190M	ETL-184C-190M	
INPUT	Pressure Range	2 BAR (Other Ranges Available Upon Request)		
	Operational Mode	Absolute		
	Over Pressure	2 Times Rated Pressure		
	Burst Pressure	3 Times Rated Pressure		
	Pressure Media	Air, Water, Oil, Fuel		
	Rated Electrical Excitation	12 ± 4 VDC	24 ± 4 VDC	24 ± 4 VDC
	Maximum Current	10 mA		
OUTPUT	Output Impedance	< 100 Ohms		
	Full Scale Output (FSO)	4.5 VDC ± 75 mV	5 VDC ± 75 mV	9.5 VDC ± 150 mV
	Residual Unbalance	± 500 mV ± 75 mV		
	Combined Non-Linearity and Hysteresis Error	< 0.2% FS		
	Resolution	Infinitesimal		
	Frequency Response	> 50 kHz		
	Insulation Resistance	> 100 Meg Ohm @ 50 V		
ENVIRONMENTAL	Operating Temperature Range	+68°F to 350°F (+20°C to +175°C)	+257°F (+125°C) Max. For The Amplifier	
	Diagnosis Temperature Range	+68°F to 320°F (+20°C to +160°C)		
	Compensated Temperature Range	+68°F to 167°F (+20°C to +75°C)		
	Total Error Band (Including Non-Linearity, Hysteresis, Thermal Effects, Long Term Stability, Mounting Influence)	± 1% FS For Compensated Temperature Range Ref. To +100°F ± 3% For Diagnosis Temperature Range Ref. To +100°F		
PHYSICAL	Electrical Connection	Burklin 70F 8251 Connector (Mating Connector Supplied)		
	Weight	< 15 Grams (Without Cable and Amplifier Module)		
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology		
	Torque Sensitivity	< 0.2% FS		
	Mounting Torque	4 Nm (Max.)		

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (D) 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.