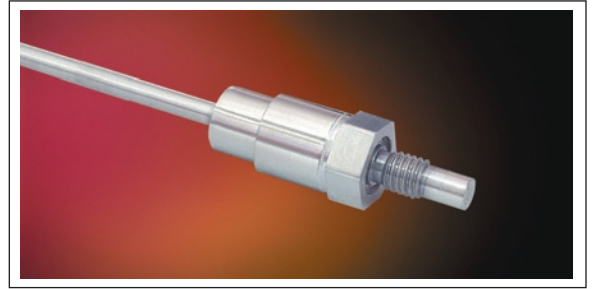




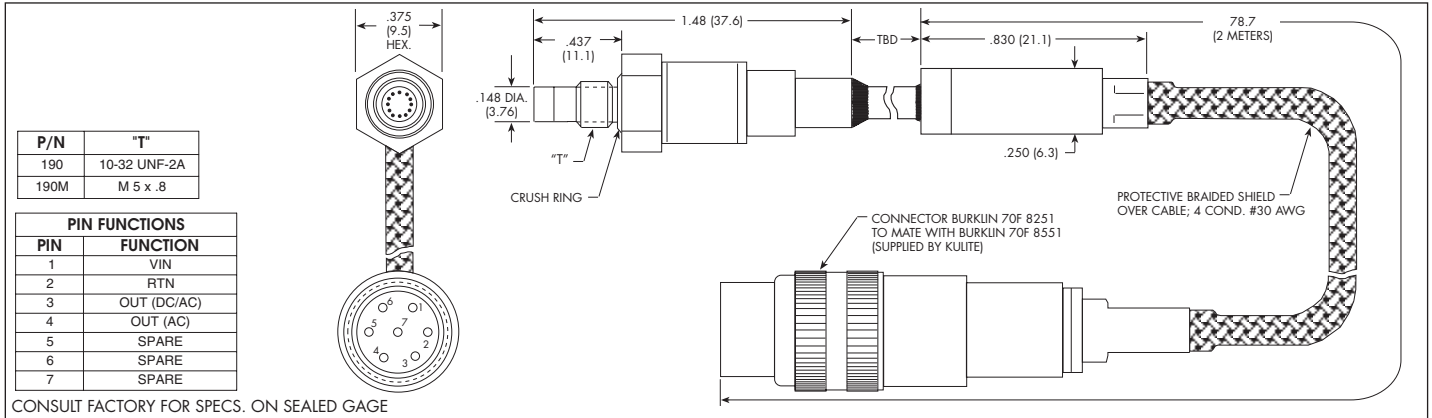
HIGH TEMPERATURE MINIATURE 5VDC OUTPUT RUGGEDIZED SCREECH/RUMBLE IS® PRESSURE TRANSDUCER WITH SEPARATE STATIC AND DYNAMIC OUTPUTS

ETLH-SR-190 (M) SERIES

- Miniature, Robust Construction
- High Temperature
- Acceleration & Vibration Insensitive
- High Bandwidth Amplifier (150 KHz)
- Patented Leadless Technology
- Screech/Rumble Measurement
- Separate DC and AC Outputs
- Dynamic and Static Capability
- Excellent Long Term Stability Coupled with High Accuracy



The ETLH-SR-190 is a high temperature, extremely rugged transducer ideal for instability measurement in engine environments. It uses a patented acceleration insensitive leadless sensing element that is more than 1000 times less sensitive to vibration than other Kulite transducers. The front of the transducer can withstand temperatures of 1025°F (550°C) while the in-line amplifier can be placed in a cooler area. The amplifier is a special high frequency amplifier that allows the transducer to be used up to 150KHz.



INPUT Pressure Range	1.7 3.5 7 17 BAR 25 50 100 250 PSI
Operational Mode	Absolute, Sealed Gage
Over Pressure	2 Times Rated Pressure
Burst Pressure	3 Times Rated Pressure
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)
Maximum Electrical Current	32 mA
Rated Electrical Excitation	12 - 36 VDC
OUTPUT Full Scale Reading	5 V ± 150mV
Output Impedance	200 Ohms (Typ.)
Bandwidth (-3dB)	DC: DC to 150 KHz AC: 50 Hz to 150 KHz
Residual Unbalance	500mV ± 50mV
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.) ± 0.5% FSO (Max.)
Resolution	Infinitesimal
Natural Frequency (KHz) (Typ.)	Greater Than 1000 KHz
Insulation Resistance	100 Megohm Min. @ 50 VDC
ENVIRONMENTAL Operating Temperature Range	-65°F to +1025°F (-55°C to +550°C) (Front End) -65°F to +257°F (-55°C to +125°C) (Connector + Amplifier)
Compensated Temperature Range	+80°F to +840°F (+25°C to +450°C)
Thermal Zero Shift	± 1.5% FS/100° F (Typ.)
Thermal Sensitivity Shift	± 1.5% /100° F (Typ.)
Linear Vibration	50g Peak, Sine 10 to 2000 Hz
Humidity	100% Relative Humidity
Mechanical Shock	100g half Sine Wave 1 msec. Duration
PHYSICAL Electrical Connection	Burklin 70F 8251 Connector (Mating Connector Supplied)
Weight	10 Grams (Nom.) Excluding Cable and Connector
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology
Mounting Torque	15 Inch-Pounds (Max.) 1.7 N-m

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. (G)