



# HIGH TEMPERATURE 5 VDC OUTPUT PRESSURE TRANSDUCER

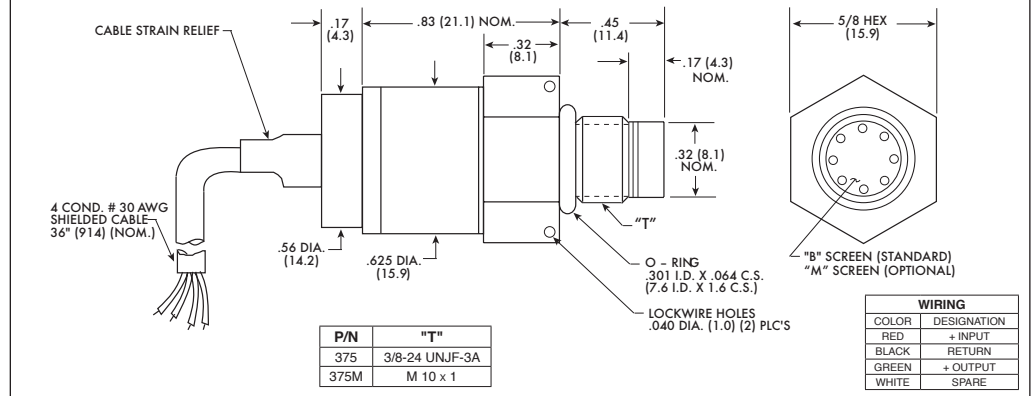
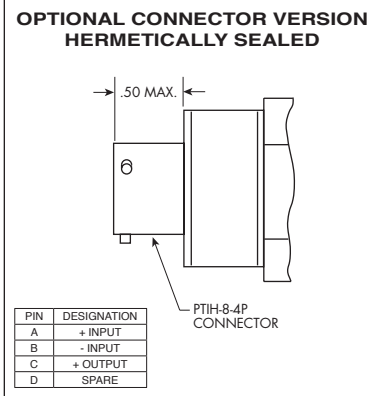
## ETL-HT-375 (M) SERIES

- 5 VDC Output
- 350°F Temperature Capability
- Hybrid Microelectronic Regulator-Amplifier
- Patented Leadless Technology
- All Welded Construction
- Secondary Containment On Absolute And Sealed Gage Units
- 3/8-24 UNJF or M10 X 1 Thread
- 3 Wire



ETL-HT-375 series transducers are miniature, threaded flush instruments. The sensing sub-assembly is protected from mechanical damage by a solid screen which has been shown to have minimal influence on the frequency response of the sensor. The ETL Series uses Kulite's Patented Leadless Technology. Incorporation

of a Kulite proprietary electronics module within the main body of this product allows for operation from an unregulated power supply of  $12 \pm 4$  VDC or  $28 \pm 4$  VDC. Standard output is a stable, low noise 0 to 5 VDC signal.



<b>INPUT</b>	1.7	3.5	7	17
Pressure Range	25	50	100	250
Operational Mode	Absolute, Sealed Gage			
Over Pressure	2 Times Rated Pressure			
Burst Pressure	3 Times Rated Pressure			
Pressure Media	Most Conductive Liquids and Gases - Please Consult Factory (All Media May Not Be Suitable With O-Ring Supplied)			
Rated Electrical Excitation	12 ± 4 VDC or 28 ± 4 VDC			
Maximum Electrical Current	25 mA			
<b>OUTPUT</b>	200 Ohms (Max.)			
Output Impedance	5 V ± 3%			
Full Scale Output (FSO)	DC to 3 KHz			
Bandwidth (-3dB)	200 mV ± 50 mV			
Residual Unbalance	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)			
Combined Non-Linearity, Hysteresis and Repeatability	Infinitesimal			
Resolution	Greater Than 175 KHz			
Natural Frequency (KHz) (Typ.)	1.9x10 <sup>-3</sup>	1.0x10 <sup>-3</sup>	5.2x10 <sup>-4</sup>	2.2x10 <sup>-4</sup>
Acceleration Sensitivity % FS/g Perpendicular	100 Megohm Min. @ 50 VDC			
Insulation Resistance	-65°F to +350°F (-55°C to +175°C)			
<b>ENVIRONMENTAL</b>	-40°F to +350°F (-40°C to +175°C) Other Ranges Quoted on Request			
Operating Temperature Range	± 1% FS/100° F (Typ.)			
Compensated Temperature Range	± 1% /100° F (Typ.)			
Thermal Zero Shift	100g Peak, Sine up to 5000 Hz			
Thermal Sensitivity Shift	-150 ft. to +70,000 ft. Will Not Damage Sensor			
Linear Vibration	100% Relative Humidity			
Altitude	100g half Sine Wave 11 msec. Duration			
Humidity	4 Conductor 30 AWG Shielded Cable 36" Long			
Mechanical Shock	24.5 Grams (Max.) Excluding Cable			
<b>PHYSICAL</b>	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon Patented Leadless Technology			
Electrical Connection	80 Inch-Pounds (Max.)			
Weight				
Pressure Sensing Principle				
Mounting Torque				

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (H) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2019 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.