



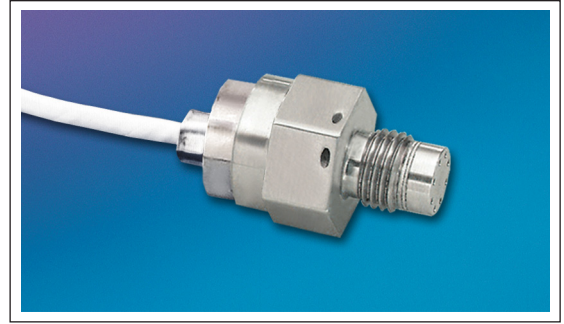
# CRYOGENIC MINIATURE RUGGEDIZED PRESSURE TRANSDUCER

## CTL-375 (M) SERIES

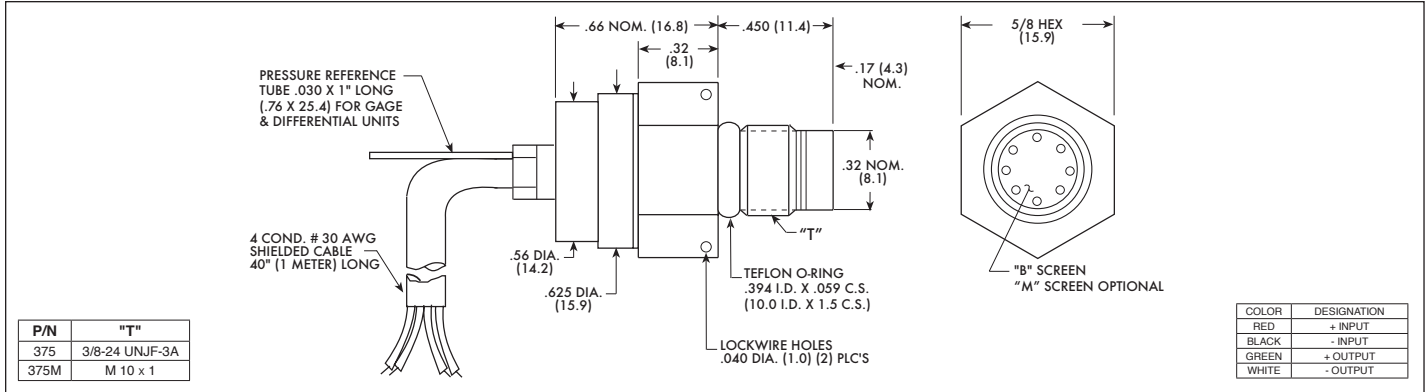
- Cryogenic Operation -320°F to +250°F (-195.5°C to +120°C)
- Low Ranges Available
- Patented Leadless Technology VIS®
- Excellent Stability and Repeatability
- High Frequency Response

Similar in design to the HKL-375 Series, these sensors are specifically intended for use at cryogenic temperature. The extremely good low temperature stability of Kulite Sensors make them ideally suited for this application.

Part performance not guaranteed if used in water.



Kulite recommends the [KSC Series](#) of signal conditioners to maximize the measurement capability of the CTL-375 transducer.



	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	140 BAR 2000 PSI
<b>INPUT</b>							
Pressure Range	Absolute, Gage, Sealed Gage, Differential			Absolute, Sealed Gage			
Operational Mode	2 Times Rated Pressure to 500 PSI (35 BAR), 1.5 Times Rated Pressure Above 500 PSI (35 BAR)						
Over Pressure	3 Times Rated Pressure to a Maximum of 5000 PSI (350 BAR)						
Burst Pressure	Most Conductive Liquids And Gases - Please Consult Factory (All Media May Not Be Suitable With O-Ring Supplied)						
Pressure Media	10 VDC						
Rated Electrical Excitation	12 VDC						
Maximum Electrical Excitation	1000 Ohms (Min.)						
Input Impedance	1000 Ohms (Nom.)						
Output Impedance	100 mV (Nom.)						
Full Scale Output (FSO)	± 5 mV (Typ.)						
Residual Unbalance	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)						
Combined Non-Linearity, Hysteresis and Repeatability	Infinitesimal						
Resolution	240	300	380	550	700	1000	1400
Natural Frequency of Sensor Without Screen (KHz) (Typ.)	5.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	1.5x10 <sup>-4</sup>	1.0x10 <sup>-4</sup>	6.0x10 <sup>-5</sup>	4.5x10 <sup>-5</sup>	2.0x10 <sup>-5</sup>
Acceleration Sensitivity % FS/g Perpendicular	100 Megohm Min. @ 50 VDC						
Insulation Resistance	-320°F to +250°F (-195.5°C to +120°C)						
Operating Temperature Range	-300°F to +100°F (-184.4°C to +37.5°C)						
Compensated Temperature Range	± 1% FS/100°F (Typ.)						
Thermal Zero Shift	± 1% /100°F (Typ.)						
Thermal Sensitivity Shift	20g Peak, Sine 10 to 2000						
Linear Vibration	20g Half Sine Wave 11 msec. Duration						
Mechanical Shock	4 Conductor 30 AWG Shielded Cable 40" Long (1 Meter)						
Electrical Connection	17 Grams (Nom.) Excluding Cable						
Weight	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology						
Pressure Sensing Principle	80 Inch-Pounds (Max.) 9 Nm						
Mounting Torque							

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