



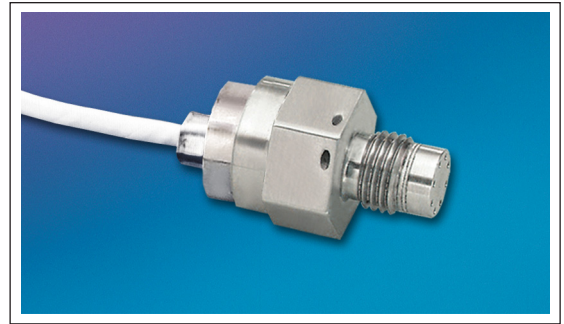
# CRYOGENIC MINIATURE RUGGEDIZED PRESSURE TRANSDUCER

## CTL-375 (M) SERIES

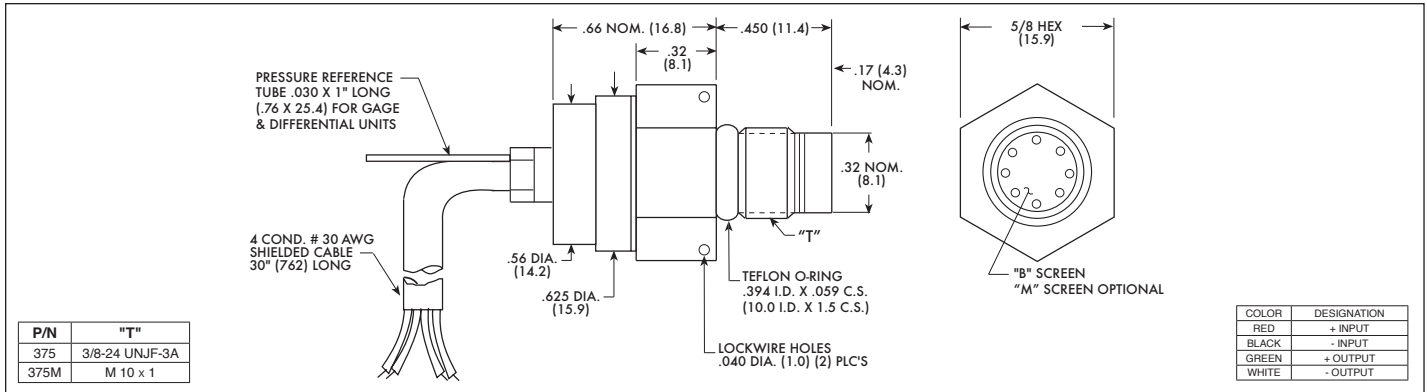
- Cryogenic Operation -320°F to +250°F (-195.5°C to +120°C)
- Low Ranges Available
- Patented Leadless Technology VIS®
- Excellent Stability and Repeatability
- High Frequency Response

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

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