



5 VDC OUTPUT IS[®] PRESSURE TRANSDUCER ETL-375 (M) SERIES

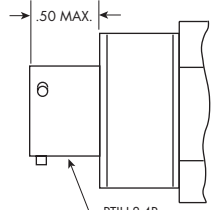
- 5 VDC Output
- Hybrid Microelectronic Regulator-Amplifier
- Patented Leadless Technology VIS[®]
- All Welded Construction
- Secondary Containment On Absolute And Sealed Gage Units
- Aerospace Quality Components
- 3/8-24 UNJF or M10 X 1 Thread
- 4 Wire (ETL-375) 3 Wire (ETL-300-375)
- Intrinsically Safe Applications Available (i.e. IS-ETL-375)



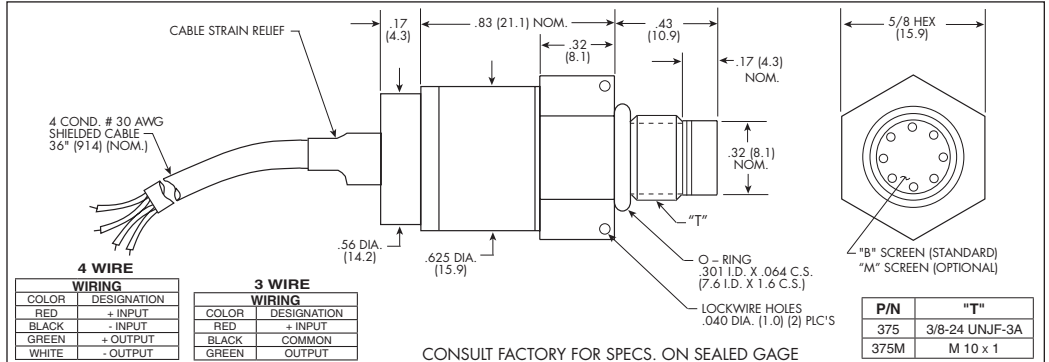
ETL-375 Series transducers are miniature, threaded instruments. The sensing sub-assembly is protected from mechanical damage by a solid screen which has been shown to have minimal influence on the frequency response of the sensor. The ETL Series uses Kulite's Patented Leadless Technology.

Incorporation of a Kulite proprietary electronics module within the main body of this product allows for operation from an unregulated power supply ranging from 12 ± 4VDC or 28 ± 4VDC with reverse polarity protection available upon request.

OPTIONAL CONNECTOR VERSION HERMETICALLY SEALED



4 WIRE		3 WIRE	
PIN	DESIGNATION	PIN	DESIGNATION
A	+ INPUT	A	+ INPUT
B	- INPUT	B	COMMON
C	+ OUTPUT	C	OUTPUT
D	- OUTPUT	D	SPARE



INPUT	1.7	3.5	7	17	35	70	170	350 BAR
Pressure Range	25	50	100	250	500	1000	2500	5000 PSI
Operational Mode	Absolute, Gage, Sealed Gage							
Over Pressure	2 Times Rated Pressure to 1000 PSI (70 BAR) 1.5 Times Rated Pressure Above 1000 PSI to a Max. of 6000 PSI (420 BAR)							
Burst Pressure	3 Times Rated Pressure to a Max. of 10000 PSI (700 BAR)							
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)							
Maximum Electrical Current	25 mA							
Rated Electrical Excitation	8 - 16 VDC				13 - 32 VDC			
OUTPUT	5 VDC ± 150 mV				5 VDC ± 150 mV or 10 VDC ± 300 mV			
Full Scale Reading	200 Ohms (Max.)							
Output Impedance	DC to 5 KHz							
Bandwidth (-3dB)	0 to 100 mV (ETL-375)				200 mV ± 50 mV (ETL-300-375)			
Residual Unbalance	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)							
Combined Non-Linearity, Hysteresis and Repeatability	Infinitesimal							
Resolution	Greater Than 400 KHz							
Natural Frequency (KHz) (Typ.)	1.9x10 ⁻³	1.0x10 ⁻³	5.2x10 ⁻⁴	2.2x10 ⁻⁴	1.1x10 ⁻⁴	6.2x10 ⁻⁵	2.6x10 ⁻⁵	1.5x10 ⁻⁵
Acceleration Sensitivity % FS/g Perpendicular	5.0x10 ⁻⁵	3.1x10 ⁻⁵	2.0x10 ⁻⁵	1.0x10 ⁻⁵	7.0x10 ⁻⁶	4.3x10 ⁻⁶	2.3x10 ⁻⁶	1.5x10 ⁻⁶
Transverse	100 Megohm Min. @ 50 VDC							
Insulation Resistance	-65°F to +250°F (-55°C to +120°C)							
ENVIRONMENTAL	Operating Temperature Range							
Operating Temperature Range	0°F to +212°F (-18°C to +100°C) Other Ranges Quoted on Request							
Compensated Temperature Range	± 1% FS/100° F (Typ.)							
Thermal Zero Shift	± 1% /100° F (Typ.)							
Thermal Sensitivity Shift	100g Peak, Sine up to 5000 Hz							
Linear Vibration	-150 ft. to +70,000 ft. Will Not Damage Sensor							
Altitude	100% Relative Humidity							
Humidity	100g half Sine Wave 11 msec. Duration							
Mechanical Shock	4 Conductor 30 AWG Shielded Cable 36" Long							
PHYSICAL	Electrical Connection							
Electrical Connection	24.5 Grams (Max.) Excluding Cable							
Weight	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology							
Pressure Sensing Principle	80 Inch-Pounds (Max.)							
Mounting Torque								

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. Continuous development of our products may result in specific performance improvements.
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