

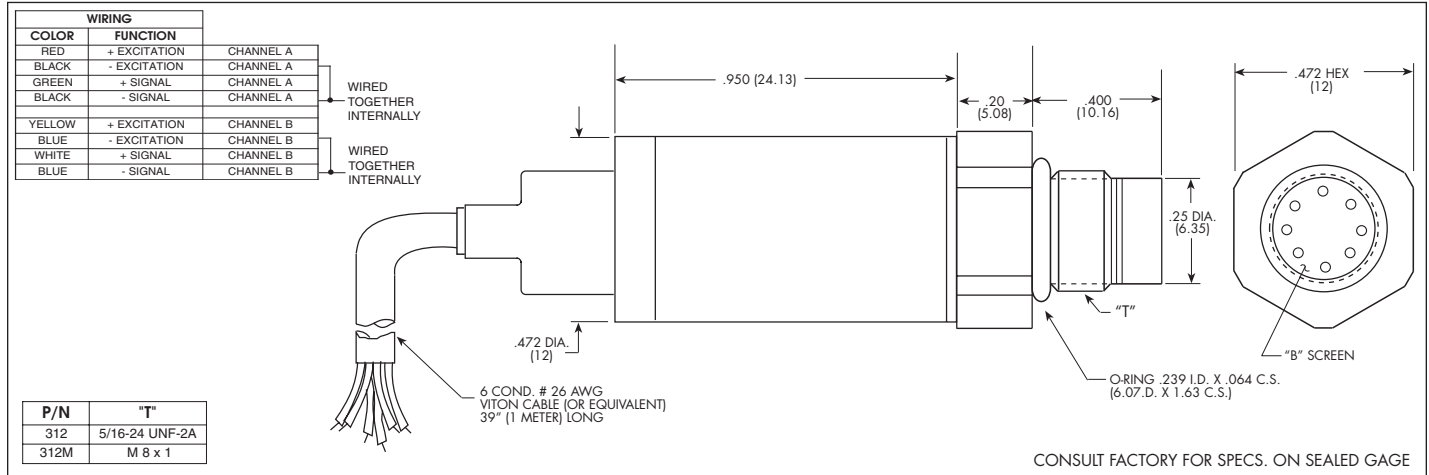


**ULTRAMINIATURE 5V DUAL OUTPUT IS®
PRESSURE TRANSDUCER
ETLR-634-312 (M) SERIES**

- Two Independent Sensing Elements
- Inherently Safe Patented Leadless Technology Applications Available (i.e. IS-ETLR-634-312)
- Dual Separate Output Signal
- Robust Construction
- Excellent Long Term Stability



The ETLR-634-312 (M) is an ultraminiature threaded redundant pressure transducer. The two sensing elements utilize a patented leadless technology, dual independent signal output combined in the same housing. The two sensing elements are designed to operate independently. All wetted parts of the transducer are compatible with most aircraft and automotive fluids.



INPUT	1.7	3.5	7	17	35	70	170	250 BAR
Pressure Range	25	50	100	250	500	1000	2500	3600 PSI
Operational Mode	Absolute, 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							
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)							
Maximum Electrical Current	25 mA							
Rated Electrical Excitation	12 ± 4 VDC				28 ± 4 VDC			
OUTPUT	5 VDC ± 75mV (3 Wire System, Single Ended Dual Output)				5 VDC ± 75mV or 10 VDC ± 150mV (3 Wire System, Single Ended Dual Output)			
Full Scale Reading								
Output Impedance	200 Ohms (Nom.)							
Bandwidth (-3dB)	DC to 3000 Hz							
Residual Unbalance	0.5V ± 75mV							
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% BFSL (Typ.), ± 0.5% BFSL (Max.)							
Resolution	Infinitesimal							
Acceleration Sensitivity % FS/g	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.5x10 ⁻⁵	1.7x10 ⁻⁵
Perpendicular	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.0x10 ⁻⁵	1.0x10 ⁻⁵	6.0x10 ⁻⁶	4.0x10 ⁻⁶	2.2x10 ⁻⁶	1.8x10 ⁻⁶
Transverse	100 Megohm Min. @ 50 VDC							
Insulation Resistance								
ENVIRONMENTAL								
Operating Temperature Range	-65°F to +375°F (-55°C to +190°C)							
Compensated Temperature Range	-65°F to +350°F (-55°C to +175°C)							
Total Error Band (Excluding End Point)	± 2% FS/180°F (100°C) ≤ 217.5 PSI (15 BAR), ± 1% FS/180°F (100°C) ≥ 217.5 PSI (15 BAR)							
Steady Acceleration and Linear Vibration	100g Peak, Sine Up to 5000 Hz							
Humidity	100% Relative Humidity							
Mechanical Shock	100g 11 msec 10,000g, 100µ sec.							
PHYSICAL								
Electrical Connection	6 Conductor 26 AWG Viton Cable (or Equivalent) 1 Meter Long							
Weight	12 Grams Excluding Cable							
Pressure Sensing Principle	Two Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology							
Mounting Torque	75 Inch-Pounds (Max.) 6Nm							

Note: Custom pressure ranges, accuracies, 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 (N)