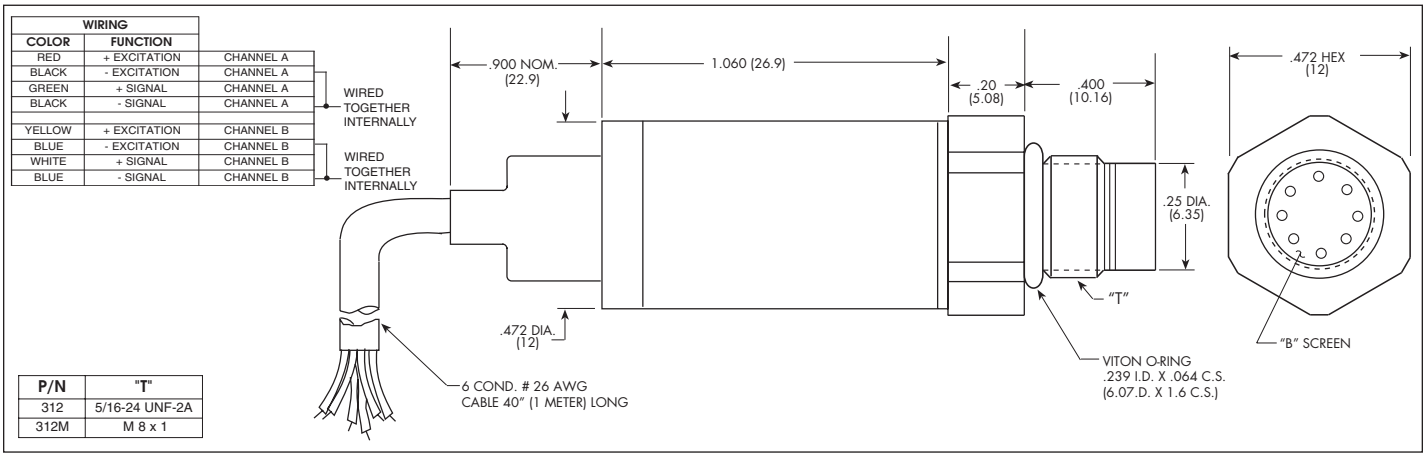
ULTRAMINIATURE 5V DUAL OUTPUT PRESSURE TRANSDUCER

ETLR-634(X)-312 (M) SERIES

- Two Independent Sensing Elements In One Housing
- Dual Separate Output Signal
- Robust Construction
- Designed For Industrial and Automotive Applications
- Patented Leadless Technology **VIS®**

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 industrial and automotive fluids.

WIRING		
COLOR	FUNCTION	
RED	+ EXCITATION	CHANNEL A
BLACK	- EXCITATION	CHANNEL A
GREEN	+ SIGNAL	CHANNEL A
BLACK	- SIGNAL	CHANNEL A
YELLOW	+ EXCITATION	CHANNEL B
BLUE	- EXCITATION	CHANNEL B
WHITE	+ SIGNAL	CHANNEL B
BLUE	- SIGNAL	CHANNEL B



P/N	"T"
312	5/16-24 UNF-2A
312M	M 8 x 1

INPUT	Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	170 2500	250 BAR 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 5000 PSI (350 BAR)							
	Burst Pressure	3 Times Rated Pressure to a Max. 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)							
	Maximum Electrical Current	25 mA							
	Rated Electrical Excitation	12 ± 4 VDC							
OUTPUT	Full Scale Reading (X)	4.9V ± 2% (A)	4.5V ± 1.5% (B)	4.5V ± 1% (C)	4.9V ± 1.5% (D)	4.75V ± 1% (E)	4.7V ± 1% (F)		
	Output Impedance	200 Ohms (Nom.)							
	Bandwidth (-3dB)	DC to 3000 Hz							
	Residual Unbalance (X)	350 ± 50 mV (A)	500 ± 75 mV (B)	300 ± 45 mV (C)	300 ± 75 mV (D)	300 ± 50 mV (E)	300 ± 50 mV (F)		
	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% BFSL (Typ.), ± 0.25% BFSL (Max.)							
	Resolution	Infinitesimal							
	Acceleration Sensitivity % FS/g Perpendicular	$5.0x10^{-4}$	$3.0x10^{-4}$	$1.5x10^{-4}$	$1.0x10^{-4}$	$6.0x10^{-5}$	$4.0x10^{-5}$	$2.5x10^{-5}$	$1.7x10^{-5}$
	Insulation Resistance	100 Megohm Min. @ 50 VDC							
ENVIRONMENTAL	Operating Temperature Range	-65°F to +365°F (-55°C to +185°C)							
	Compensated Temperature Range	+68°F to +350°F (+20°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)							
	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)							
	Mechanical Shock	20g half Sine Wave 11 msec. Duration							
PHYSICAL	Electrical Connection	6 Conductor 26 AWG Cable 40" (1 Meter) Long							
	Weight	15 Grams (Nom.) Excluding Cable							
	Pressure Sensing Principle	Two Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology							
	Mounting Torque	50 Inch-Pounds (Max.) 6Nm							

(X) Denotes FSR and Residual Unbalance Options (A), (B), (C), (D), (E) or (F).

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