



MINIATURE 4-20mA OUTPUT PRESSURE TRANSDUCER

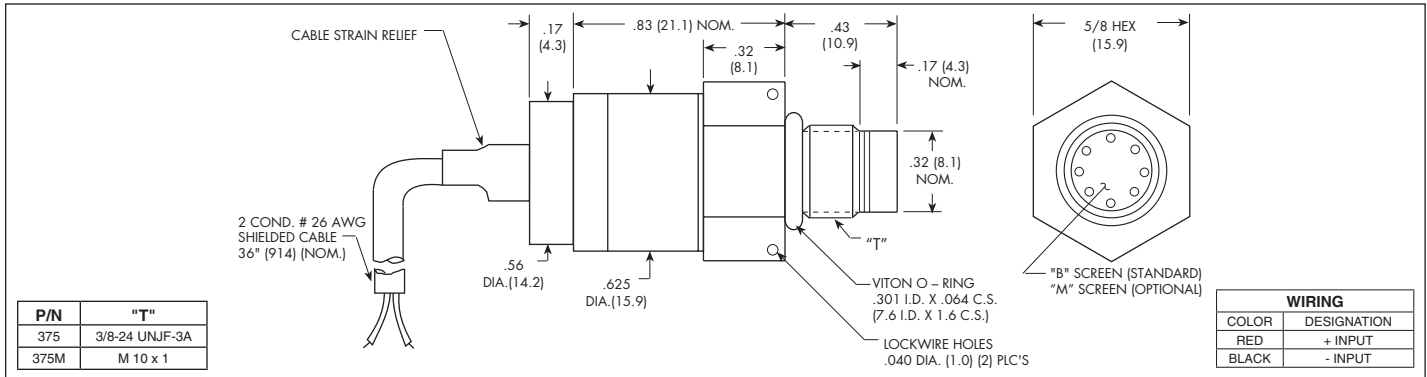
ETQ-13-375(M) SERIES

- 4-20mA Output
- 2 Wire Operation
- Hybrid Microelectronic Signal Conditioner
- Flush Diaphragm Coupled With Protective Screen
- All Welded Construction
- Silicon on Silicon Integrated Sensor **VIS®**
- Qualified Configuration For Industrial Applications
- Economically Designed For OEM Applications
- 3/8-24 UNJF or M10 X 1 Thread
- Intrinsically Safe Applications



The ETQ-13-375 Series of miniature pressure transducers are flush diaphragm units utilizing a Kulite Piezoresistive Sensor as the sensing element. Mounted within the body of the transducer is a hybrid regulator-amplifier which provides a

stable, low noise 4-20mA output, with a 12 - 32 VDC unregulated input. The flush diaphragm is protected against mechanical damage by a screen which is standard.



INPUT	Pressure Range	17 250	70 1000	350 5000	700 BAR 10000 PSI
	Operational Mode	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 30000 PSI (2100 BAR)			
	Burst Pressure	3 Times Rated Pressure to a Max. of 30000 PSI (2100 BAR)			
	Pressure Media	Any Liquid or Gas Compatible With 15-5 PH or 316 SS (All Media May Not Be Suitable With O-Ring Supplied)			
	Minimum Voltage Required	9 V Minimum Voltage Required Across The Input and Output Wires			
	Rated Electrical Excitation	12 - 32 VDC			
OUTPUT	Output	4 - 20 mA			
	Bandwidth (-3dB)	DC to 750 Hz			
	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.)	Greater Than 400 KHz			
	Acceleration Sensitivity % FS/g Perpendicular	2.2x10 ⁻⁴	6.2x10 ⁻⁵	1.5x10 ⁻⁵	1.3x10 ⁻⁵
	Insulation Resistance	100 Megohm Min. at 50 VDC			
ENVIRONMENTAL	Operating Temperature Range	-65°F to +250°F (-55°C to +120°C) (Max.)			
	Compensated Temperature Range	0°F to +212°F (-18°C to +100°C) Other Ranges Quoted on Request			
	Thermal Zero Shift	± 2% FS/100°F (Typ.)			
	Thermal Sensitivity Shift	± 2% /100°F (Typ.)			
	Linear Vibration	10-2,000 Hz Sine, 100g (Max.)			
PHYSICAL	Mechanical Shock	20g half Sine Wave 11 msec. Duration			
	Electrical Connection	2 Conductor 26 AWG Shielded Cable 36" Long			
	Weight	24.5 Grams Excluding Cable			
	Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon			
Mounting Torque	80 Inch-Pounds (Max.)				

