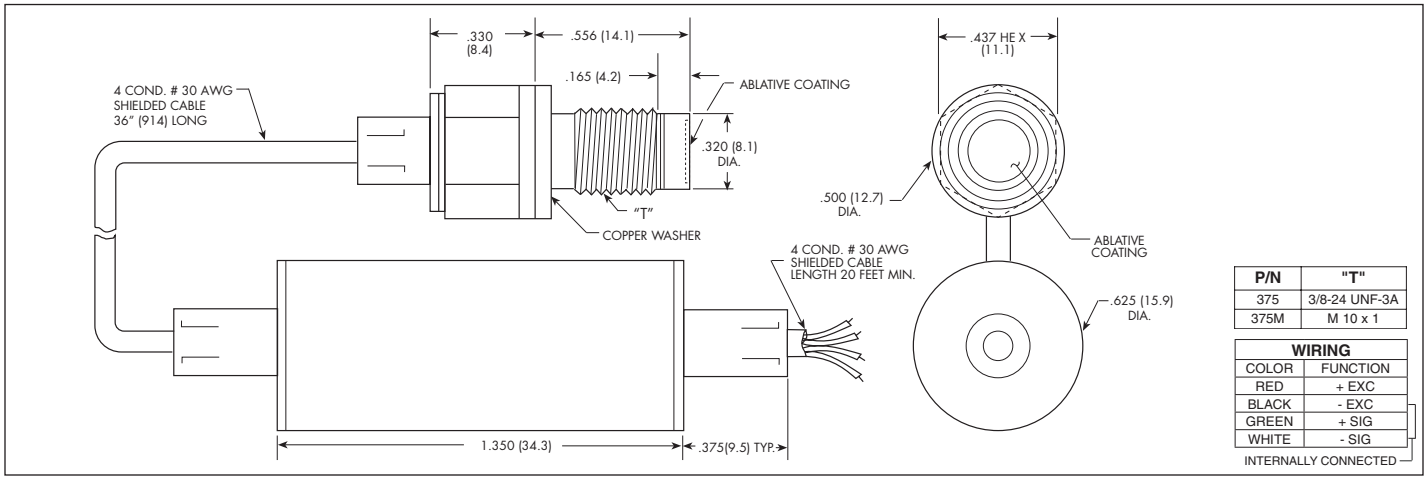
HIGH PRESSURE 5VDC OUTPUT RUGGEDIZED PRESSURE TRANSDUCER

ETS-HP-375 (M) SERIES

- 5 VDC Output
- Hybrid Microelectronic Regulator-Amplifier
- Very High Natural Frequency
- Designed For Shock Pressure Applications
- Silicon on Silicon Integrated Sensor **VIS**®

Designed for high pressure, high shock environments, this range of transducers is widely used in shock pressure applications, now mated with an external in-line amplifier for a high level 5 Volt DC output



P/N	"T"
375	3/8-24 UNF-3A
375M	M 10 x 1

WIRING	
COLOR	FUNCTION
RED	+ EXC
BLACK	- EXC
GREEN	+ SIG
WHITE	- SIG

INTERNALLY CONNECTED

INPUT	Pressure Range	35 500	70 1000	140 2000	350 5000	700 10000	1400 20000	2100 BAR 30000 PSI
	Operational Mode	Sealed Gage						
	Over Pressure	70 1000	100 1500	210 3000	510 7500	1000 15000	1700 25000	2450 BAR 35000 PSI
	Burst Pressure	210 3000	210 3000	420 6000	840 12000	1400 20000	2100 30000	2800 BAR 40000 PSI
	Pressure Media	Any Liquid or Gas Compatible With 15-5 PH, 316 Stainless Steel and Silicone RTV (All Media May Not Be Suitable With Crush Ring Supplied)						
	Maximum Electrical Current	25 mA						
	Rated Electrical Excitation	12 ± 4 VDC				28 ± 4 VDC		
OUTPUT	Full Scale Reading	5 VDC ± 150mV				5 VDC ± 150mV or 10 VDC ± 300mV		
	Output Impedance	200 Ohms (Max.)						
	Bandwidth (-3dB) Amplifier Only	DC Up to 150 KHz						
	Residual Unbalance	500 mV ± 50 mV						
	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.) ± 0.5% FSO (Max.)						
	Resolution	Infinitesimal						
	Natural Frequency of Sensor Without Ablative Coating (KHz) (Typ.)		720	900	1120	1350	1600	1800
	Acceleration Sensitivity % FS/g Perpendicular		$6.2x10^{-5}$	$2.7x10^{-5}$	$1.5x10^{-5}$	$1.3x10^{-5}$	$8.6x10^{-6}$	$6.0x10^{-6}$
	Insulation Resistance	100 Megohm Min. @ 50 VDC						
ENVIRONMENTAL	Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)						
	Compensated Temperature Range	0°F to +212°F (-18°C to +100°C)						
	Thermal Zero Shift	2% FS/100°F (Typ.)						
	Thermal Sensitivity Shift	2% /100°F (Typ.)						
	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)						
	Mechanical Shock	20g half Sine Wave 11 msec. Duration						
PHYSICAL	Electrical Connection	4 Conductor 30 AWG Shielded Cable						
	Weight	10 Grams (Nom.) Excluding Cable and Amplifier						
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon						
	Mounting Torque	80-120 Inch-Pounds (Max.)						
	Diaphragm Coating	Ablative Coating Standard						

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

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