

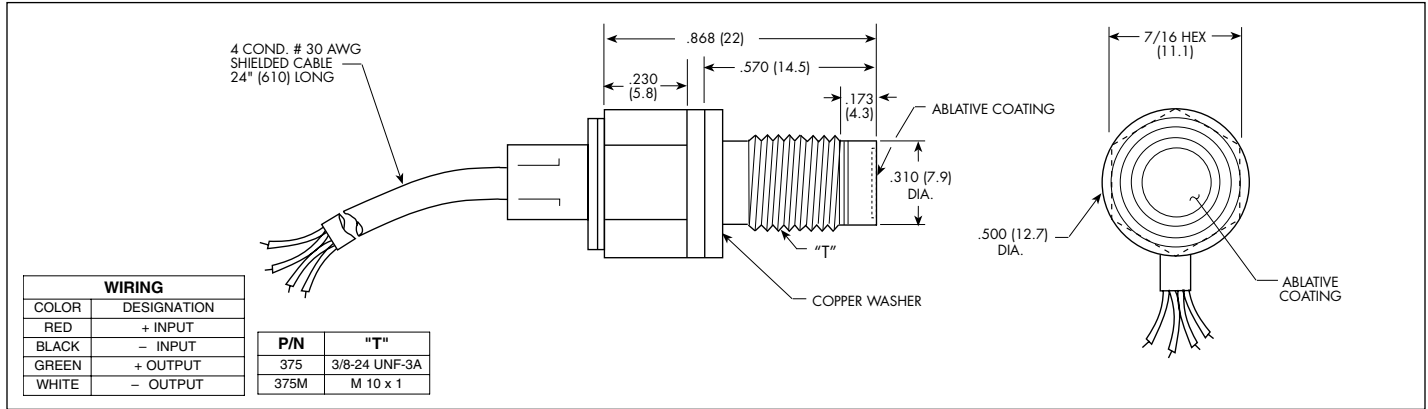


HIGH PRESSURE RUGGEDIZED DYNAMIC RESPONSE IS[®] PRESSURE TRANSDUCER

HKS-375 (M) SERIES

- Low Impedance High Output
- Very High Natural Frequency
- Excellent Signal To Noise Ratio
- Designed For Pressure Blast Applications

Designed for high pressure, high shock environments, this range of transducers is widely used in both military and commercial applications.



INPUT	70	140	350	700	1400	2100 BAR
Pressure Range	1000	2000	5000	10000	20000	30000 PSI
Operational Mode	Sealed Gage					
Over Pressure	100 1500	210 3000	510 7500	1000 15000	1700 25000	2450 BAR 35000 PSI
Burst Pressure	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 or 316 Stainless Steel					
Rated Electrical Excitation	5 VDC/AC					
Maximum Electrical Excitation	7.5 VDC/AC					
Input Impedance	1000 Ohms (Nom.)					
OUTPUT	1000 Ohms (Nom.)					
Output Impedance	1000 Ohms (Nom.)					
Full Scale Output (FSO)	100mV (Nom.)	100mV (Nom.)	100mV (Nom.)	100mV (Nom.)	100mV (Nom.)	75mV (Nom.)
Residual Unbalance	± 5 mV					
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.) ± 0.5% FSO (Max.)					
Hysteresis	0.25% (Typ.)					
Repeatability	0.25% (Typ.)					
Resolution	Infinitesimal					
Natural Frequency (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
Transverse	4.3x10 ⁻⁶	2.4x10 ⁻⁶	1.5x10 ⁻⁶	1.3x10 ⁻⁶	1.0x10 ⁻⁶	8.0x10 ⁻⁷
Insulation Resistance	100 Megohm Min. @ 50 VDC					
ENVIRONMENTAL	-65°F to +300°F (-55°C to +150°C)					
Operating Temperature Range	80°F to +180°F (25°C to +80°C) Any 100°F Range Within The Operating Range on Request					
Compensated Temperature Range	± 6% FS/100°F (Typ.)					
Thermal Zero Shift	± 6% FS/100°F (Typ.)					
Thermal Sensitivity Shift	10,000g. (Max.)					
Steady Acceleration	10-2,000 Hz Sine, 100g. (Max.)					
Linear Vibration	4 Conductor 30 AWG Shielded Cable 24" Long					
PHYSICAL	10 Grams (Nom.) Excluding Cable and Amplifier					
Electrical Connection	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon					
Weight	80-120 Inch-Pounds (Max.)					
Pressure Sensing Principle	Ablative Coating Standard					
Mounting Torque						
Diaphragm Coating						

Note: Custom pressure ranges, accuracies and 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. (C)

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