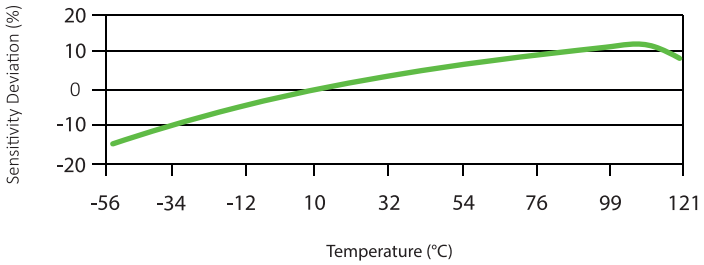
602M167AQT INDUSTRIAL ICP® ACCELEROMETER

Performance	ENGLISH	SI	
Sensitivity (± 10%)	100 mV/g	10.2 mV (m/s²)	[2]
Measurement Range	± 50 g	± 490 m/s²	
Frequency Range (± 3dB)	30 to 480,000 cpm	0.5 to 8000 Hz	[3]
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution (1 to 10,000 Hz)	350 µg	3434 µm/s²	[1]
Non-Linearity	± 1%	± 1%	[4]
Transverse Sensitivity	≤ 7%	≤ 7%	
Environmental			
Overload Limit (Shock)	5000 g pk	49,050 m/s² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time (within 1% of bias)	≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constant	≥ 0.3 sec	≥ 0.3 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	< 150 ohm	< 150 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	8.0 µg/√Hz	78.5 (µm/s²)/√Hz	[1]
Spectral Noise (100 Hz)	5 µg/√Hz	49.1 (µm/s²)/√Hz	[1]
Spectral Noise (1 kHz)	4 µg/√Hz	39.2 (µm/s²)/√Hz	[1]
Electrical Isolation (Case)	> 10^8 ohm	> 10^8 ohm	
Physical			
Size (Length x Width x Height)	3.70 in x 0.74 in x 0.845 in	94 mm x 18.8 mm x 21.5 mm	
Weight (without cable)	2.61 oz	74.0 gm	
Mounting Thread	1/4-28 Male	No Metric Equivalent	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Side	Side	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	[6]

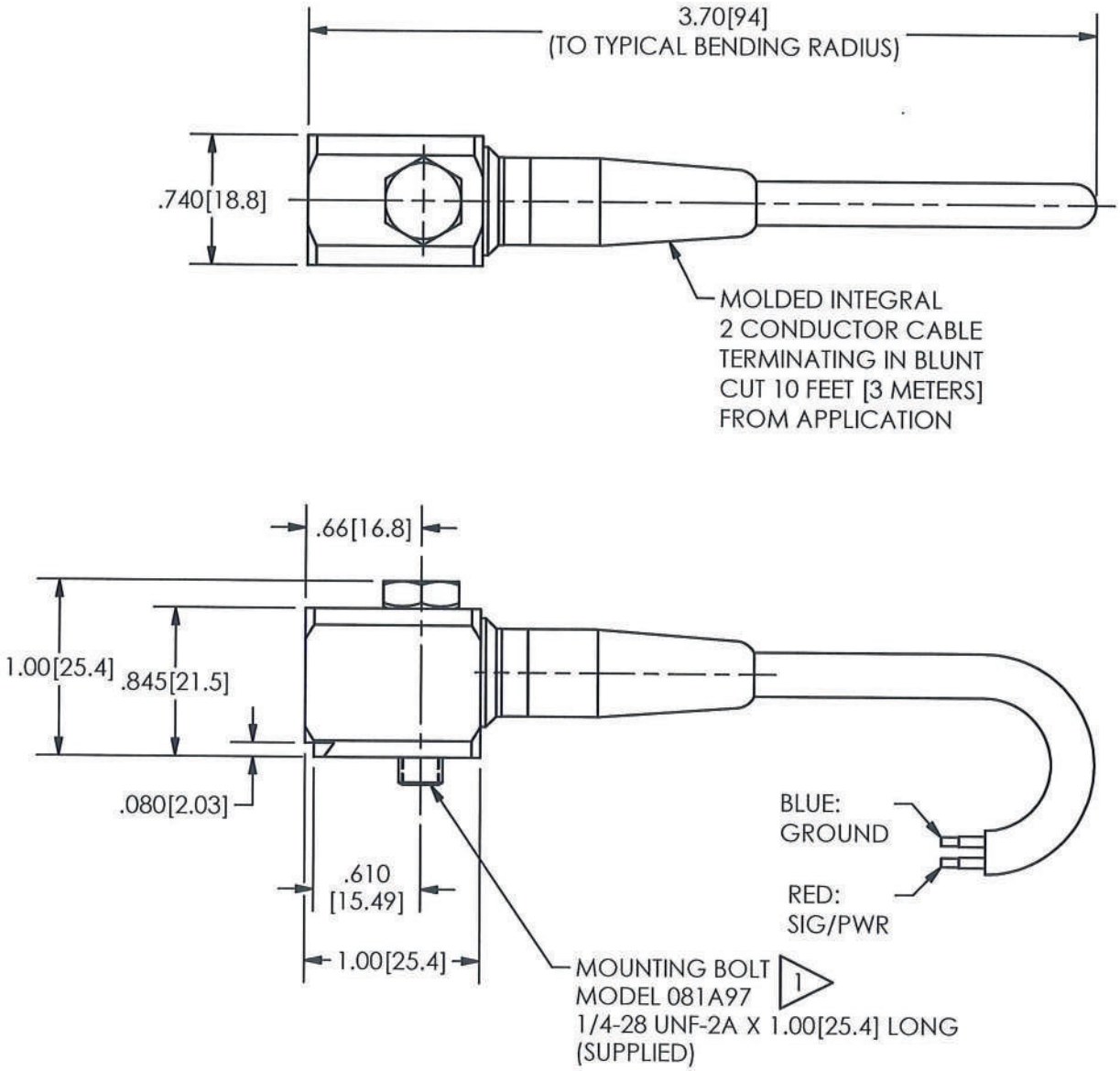
NOTES:
[1] Typical.
[2] Conversion Factor 1g = 9.81 m/s².
[3] The high frequency tolerance is accurate within ± 10% of the speciefied frequency.
[4] Zero-based, least-squares, straight line method.
[5] 1/4-28 has no equivalent in S.I. units.
[6] Twisted shielded pair.

Typical Sensitivity Deviation vs Temperature



CE

All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.



UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		TITLE	
DIMENSIONS IN INCHES DECIMALS XX ±.03 XXX ±.010 ANGLES ± 2 DEGREES	DIMENSIONS IN MILLIMETERS [IN BRACKETS] DECIMALS X ± 0.8 XX ± 0.25 ANGLES ± 2 DEGREES	OUTLINE DRAWING MODEL 602M167AQT ACCELEROMETER	AQTech Power Prognostics E-MAIL: sales@aqtech.com
FILLETS AND RADII .003 - .005	FILLETS AND RADII 0.07 - 0.13	CODE IDENT. NO.	DWG. NO.
		SCALE: FULL	SHEET 1 OF 1