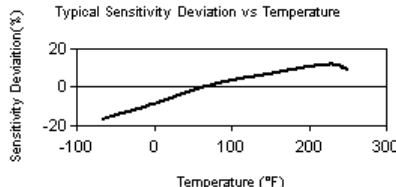


Model Number 604B31		LOW-COST TRIAXIAL INDUSTRIAL ICP® ACCELEROMETER			Revision A ECN #: 27957	
Performance		ENGLISH		SI		
Sensitivity (±20 %)		100 mV/g		10.2 mV/(m/s²) [2]		
Measurement Range		±50 g		±490 m/s²		
Frequency Range (±3 dB)		30 to 300000 cpm		0.5 to 5000 Hz [3]		
Resonant Frequency		600 kcpm		10 kHz [1]		
Broadband Resolution (1 to 10000 Hz)		350 µg		3434 µm/sec² [1]		
Non-Linearity		±1 %		±1 % [4]		
Transverse Sensitivity		≤5 %		≤5 %		
Environmental						
Overload Limit (Shock)		5000 g pk		49050 m/s² pk		
Temperature Range		-65 to +250 °F		-54 to +121 °C [1]		
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 µg/√Hz		78.5 (µm/sec²)/√Hz [1]		
Spectral Noise (100 Hz)		5 µg/√Hz		49.1 (µm/sec²)/√Hz [1]		
Spectral Noise (1 kHz)		4 µg/√Hz		39.2 (µm/sec²)/√Hz [1]		
Electrical Isolation (Case)		>10⁸ ohm		>10⁸ ohm		
Physical						
Size (Diameter x Height)		1.38 in x 1.00 in		35.1 mm x 25.4 mm		
Weight		4.4 oz		124 gm		
Mounting		Through Hole		Through Hole		
Mounting Thread		1/4-28 Male		Not Applicable [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		4-Pin MIL-C-26482		4-Pin MIL-C-26482		
Electrical Connection Position		Side		Side		
Electrical Connections (Pin A)		X axis		X axis		
Electrical Connections (Pin B)		Y axis		Y axis		
Electrical Connections (Pin C)		Z axis		Z axis		
Electrical Connections (Pin D)		Ground		Ground		
 [6]						
						
Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)						
CS - Canadian Standards Association Approved Intrinsically Safe [7]						
M - Metric Mount						
Supplied Accessory: Model M081A68 Captive mounting bolt, 1/4-28 x 0.875" long (for Series 604, 605, and 606 accelerometers)						
Notes						
[1] Typical.						
[2] Conversion Factor 1g = 9.81 m/s².						
[3] The high frequency tolerance is accurate within ±10% of the specified frequency.						
[4] Zero-based, least-squares, straight line method.						
[5] 1/4-28 has no equivalent in S.I. units.						
[6] See PCB Declaration of Conformance PS023 for details.						
[7] Division 1; Class I; Group C & D; Temperature Code T4						
Supplied Accessories						
081A68 Captive mounting bolt 1/4-28 x .90" (1)						
Entered: LLH		Engineer: JEC		Sales: NJF		
Date: 01/11/2008		Date: 01/11/2008		Date: 01/11/2008		
Approved: LLH		Spec Number: 21814		Date: 01/14/2008		
						
3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 716-684-0003 Fax: 716-684-3823 E-mail: imi@pcb.com Web site: www.imi-sensors.com						

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.

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