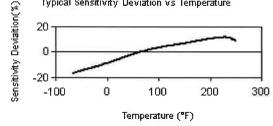
Model Number INDUSTRIAL ICP® ACCELEROMETER 604B31 Performance **ENGLISH OPTIONAL VERSIONS** Sensitivity(± 20 %) 100 mV/q 10.2 mV/(m/s2) [2] Optional versions have identical specifications and accessories as listed for the standard model Measurement Range ± 50 g ± 490 m/s² except where noted below. More than one option may be used. Frequency Range(± 3 dB) 30 to 300,000 cpm 0.5 to 5000 Hz [3] Resonant Frequency CS - Canadian Standards Association Approved Intrinsically Safe 600 kcpm [1] 10 kHz Broadband Resolution(1 to 10,000 Hz) 350 µg [1] 3434 um/s² Non-Linearity ±1% ± 1 % [4] M - Metric Mount Transverse Sensitivity Supplied Accessory: Model M081A68 Captive mounting bolt M6 x 1 (1) ≤ 5 % ≤ 5 % 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 [1] 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 NOTES: Output Impedance <150 ohm <150 ohm [1] Typical Output Bias Voltage 8 to 12 VDC 8 to 12 VDC [2] Conversion Factor 1g = 9.81 m/s2. [3] The high frequency tolerance is accurate within ±10% of the specified frequency. Spectral Noise(10 Hz) 8 µg/√Hz 78.5 (µm/s²)/√Hz [4] Zero-based, least-squares, straight line method. Spectral Noise(100 Hz) 5 µg/√Hz 49.1 (µm/s²)/√Hz [5] 1/4-28 has no equivalent in S.I. units. Spectral Noise(1 kHz) 4 µg/√Hz 39,2 (µm/s²)/√Hz [6] See PCB Declaration of Conformance PS023 for details. Electrical Isolation(Case) >108 ohm >10⁸ ohm [7] Division 1; Class I; Group C & D; Temperature Code T4 **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 [5] 1/4-28 Male Not Applicable 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 Typical Sensitivity Deviation vs Temperature





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.

ICP® is a registered trademark of PCB Group, Inc.

SUPPLIED ACCESSORIES:

Model 081A68 Captive mounting bolt 1/4-28 x .90" (1)

Approved: Spec Number: 08 Date: 1008 Date: Date: 21814



Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com

Revision: A

ECN #: 27957

[7]