Model Number INDUSTRIAL ICP® ACCELEROMETER Revision: NR 605B61 ECN #: Performance **ENGLISH** SI **OPTIONAL VERSIONS** Sensitivity (± 20 %) 100 mV/g 10.2 mV/(m/s²) [2] Optional versions have identical specifications and accessories as listed for the standard model Measurement Range ± 50 g except where noted below. More than one option may be used. ± 490 m/s² Frequency Range (± 3 dB) 30 to 300,000 cpm 0.5 to 5000 Hz Resonant Frequency [1] M - Metric Mount 600 kcpm 10 kHz Supplied Accessory: Model M081A68 Captive mounting bolt M6 x 1 (1) Broadband Resolution (1 to 10,000 Hz) 350 µg [1] 3434 um/s² Non-Linearity [3] ±1% ±1% Transverse Sensitivity ≤5% ≤5% **Environmental** Overload Limit (Shock) 5000 a 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 NOTES: Discharge Time Constant ≥ 0.3 sec ≥ 0.3 sec [1] Typical. Excitation Voltage 18 to 28 VDC 18 to 28 VDC [2] Conversion Factor 1g = 9.81 m/s². Constant Current Excitation 2 to 20 mA 2 to 20 mA [3] Zero-based, least-squares, straight line method. Output Impedance <150 ohm <150 ohm [4] 1/4-28 has no equivalent in S.I. units. Output Bias Voltage 8 to 12 VDC 8 to 12 VDC [5] Twisted shielded 4-conductor cable. Spectral Noise (10 Hz) 8 ua/√Hz [1] [6] See PCB Declaration of Conformance PS023 for details 78.5 (µm/s²)/√Hz Spectral Noise (100 Hz) 5 μg/√Hz [1] 49.1 (µm/s²)/√Hz Spectral Noise (1 kHz) 4 μg/√Hz [1] 39.2 (µm/s²)/√Hz 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 (without cable) 4.0 oz 113.3 am Mounting Thread 1/4-28 UNF [4] No Metric Equivalent 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** Integral Armored Cable Integral Armored Cable **Electrical Connection Position** Side Side Electrical Connections (Red) X axis X axis Electrical Connections (White) Z axis Z axis Electrical Connections (Black) Ground Ground Electrical Connections (Green) Not Used Not Used Cable Length 10 ft 3.0 m Cable Type Polyurethane [5] Polyurethane Typical Sensitivity Deviation vs Temperature Sensitivity Deviaition(%) SUPPLIED ACCESSORIES: 30 Model 081A68 Captive mounting bolt 1/4-28 x .90" (1) Model ACS-2T NIST Traceable Single Point Calibration at 100 Hz for Each Axis (1) -30 Entered Sales: 🏠 🛦 Engineer Approved: Spec Number: -15 35 85 135 235 -65 185 Date: 1 Date: 22847 Temperature (°F) All specifications are at room temperature unless otherwise specified. Phone: 800-959-4464 In the interest of constant product improvement, we reserve the right to change specifications without notice. Fax: 716-684-3823 ICP® is a registered trademark of PCB Group, Inc. E-Mail: imi@pcb.com 3425 Walden Avenue, Depew, NY 14043