

| Model Number<br>645B00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 4-20 MA OUTPUT ACCELEROMETER                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                       | Revision: D<br>ECN #: 56897 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Performance</b><br>Measurement Range<br>Output<br>Frequency Range(± 10 %)<br>Broadband Resolution<br>Non-Linearity<br><b>Environmental</b><br>Temperature Range<br>Enclosure Rating<br><b>Electrical</b><br>Excitation Voltage<br>Load Resistance<br>Settling Time(within 2% of value)<br>Electrical Isolation(Case)<br><b>Physical</b><br>Size (Hex x Height)<br>Weight<br>Mounting Thread<br>Mounting Torque<br>Sensing Element<br>Sensing Geometry<br>Housing Material<br>Sealing<br>Electrical Connector<br>Electrical Connection Position<br>Electrical Connections(Pin A)<br>Electrical Connections(Pin B) |  | <b>ENGLISH</b><br>0.0 to 5 g rms<br>4-20 mA<br>180 to 60 kcpm<br>0.025 g rms<br>± 1 %<br>-40 to 185 °F<br>IP68<br>12 to 30 VDC<br>50(Vs-12) Ohm<br>< 15 sec<br>> 10 <sup>8</sup> Ohm<br>1.0 in x 2.6 in<br>4.7 oz<br>1/4-28 UNF<br>3 to 5 ft-lb<br>Ceramic<br>Shear<br>Stainless Steel<br>Welded Hermetic<br>2-Pin MIL-C-5015<br>Top<br>4-20 mA Pos (+)<br>4-20 mA Neg (-) |  | <b>SI</b><br>0.0 to 49 m/s <sup>2</sup> rms<br>4-20 mA<br>3 to 1 kHz<br>0.24 m/s <sup>2</sup> rms<br>± 1 %<br>-40 to 85 °C<br>IP68<br>12 to 30 VDC<br>50(Vs-12) Ohm<br>< 15 sec<br>> 10 <sup>8</sup> Ohm<br>25.4 mm x 66 mm<br>131 gm<br>No Metric Equivalent<br>4 to 7 Nm<br>Ceramic<br>Shear<br>Stainless Steel<br>Welded Hermetic<br>2-Pin MIL-C-5015<br>Top<br>4-20 mA Pos (+)<br>4-20 mA Neg (-) | [1]<br>[2][3]<br>[4]        | <b>OPTIONAL VERSIONS</b><br>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.<br><br><b>EX</b> - Hazardous Area Approval- contact factory for specific approvals<br><br><b>M</b> - Metric Mount<br>Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40<br><br><b>RV</b> - Buffered Analog Signal Output - 100 mV/g (±20%)<br>Electrical Connector<br>Electrical Connections<br>Electrical Connections<br>3-Pin MIL-C-5015<br>4-20 mA Neg/Signal Output<br>Neg<br>Signal Output Pos<br>3-Pin MIL-C-5015<br>4-20 mA Neg/Signal Output<br>Neg<br>Signal Output Pos |
| <b>NOTES:</b><br>[1]Conversion Factor 1g = 9.81 m/s <sup>2</sup> .<br>[2]Current will fluctuate at frequencies below 5 Hz.<br>[3]1Hz = 60 cpm (cycles per minute).<br>[4]Typical.<br>[5]See PCB Declaration of Conformance PS039 or PS053 for details.<br>[6]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>SUPPLIED ACCESSORIES:</b><br>Model 081A40 Mounting Stud (1)<br>Model ICS-4 NIST-traceable single-axis amplitude response calibration from 0 cpm (0 Hz) to upper 10% frequency for 4 - 20 mA output vibration sensor (1)                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Entered: ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Engineer: gs                                                                                                                                                                                                                                                                                                                                                               |  | Sales: JL                                                                                                                                                                                                                                                                                                                                                                                             | Approved: BAM               | Spec Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Date: 09/18/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Date: 09/18/2026                                                                                                                                                                                                                                                                                                                                                           |  | Date: 09/18/2026                                                                                                                                                                                                                                                                                                                                                                                      | Date: 09/18/2026            | 27858                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <br><br>All specifications are at room temperature unless otherwise specified.<br>In the interest of constant product improvement, we reserve the right to change specifications without notice.<br>ICP® is a registered trademark of PCB Piezotronics, Inc.                                                                                                                                                                                  |  | <br>3425 Walden Avenue, Depew, NY 14043<br><br>Phone: 800-959-4464<br>Fax: 716-684-3823<br>E-Mail: imi@pcb.com                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |