

|                                    | ENGLISH              | SI                   |        |
|------------------------------------|----------------------|----------------------|--------|
| <b>Performance</b>                 |                      |                      |        |
| Measurement Range                  | 0.0 to 2 in/s pk     | 0.0 to 50.8 mm/s pk  | [1]    |
| Output                             | 4-20 mA              | 4-20 mA              |        |
| Frequency Range (± 10 %)           | 180 to 60,000 cpm    | 3 to 1000 Hz         | [2][3] |
| Broadband Resolution               | 0.01 in/s pk         | 0.26 mm/s pk         | [4]    |
| Non-Linearity                      | ± 1 %                | ± 1 %                |        |
| <b>Environmental</b>               |                      |                      |        |
| Temperature Range                  | -40 to 185 °F        | -40 to 85 °C         |        |
| <b>Electrical</b>                  |                      |                      |        |
| Excitation Voltage                 | 12 to 30 VDC         | 12 to 30 VDC         |        |
| Settling Time (within 2% of value) | <15 sec              | <15 sec              |        |
| Electrical Isolation (Case)        | >10 <sup>8</sup> ohm | >10 <sup>8</sup> ohm |        |
| <b>Physical</b>                    |                      |                      |        |
| Size (Hex x Height)                | 1.0 in x 2.6 in      | 25.4 mm x 66 mm      |        |
| Weight                             | 4.7 oz               | 131 gm               |        |
| Mounting Thread                    | 1/4-28 UNF           | Not Applicable       |        |
| Mounting Torque                    | 3 to 5 ft-lb         | 4 to 7 N-m           |        |
| Sensing Element                    | Ceramic              | Ceramic              |        |
| Sensing Geometry                   | Shear                | Shear                |        |
| Housing Material                   | Stainless Steel      | Stainless Steel      |        |
| Sealing                            | Welded Hermetic      | Welded Hermetic      |        |
| Electrical Connector               | 2-Pin MIL-C-5015     | 2-Pin MIL-C-5015     |        |
| Electrical Connection Position     | Top                  | Top                  |        |
| Electrical Connections (Pin A)     | 4-20 mA Pos (+)      | 4-20 mA Pos (+)      |        |
| Electrical Connections (Pin B)     | 4-20 mA Neg (-)      | 4-20 mA Neg (-)      |        |

**OPTIONAL VERSIONS**

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**EX** - ATEX or ATEX and CSA Hazardous Area Approval  
 Hazardous Area Approval EEx ia IIC T4, -40°C≤Tas80°C, II 1 G  
 Hazardous Area Approval EEx nL IIC T4, -40°C≤Tas80°C, II 3 G  
 Hazardous Area Approval DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4  
 Hazardous Area Approval DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4

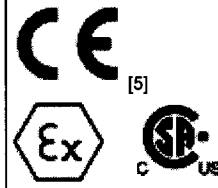
**M** - Metric Mount  
 Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40

**RV** - Buffered Analog Signal Output - 100 mV/g (±20%)  
 Electrical Connector 3-Pin MIL-C-5015  
 Electrical Connections (Pin A) 4-20 mA Pos (+)  
 Electrical Connections (Pin B) 4-20 mA Neg/Signal Output Neg  
 Electrical Connections (Pin C) Signal Output Pos

**NOTES:**  
 [1] Conversion Factor 1 in/sec = 0.0254 m/sec.  
 [2] Current will fluctuate at frequencies below 5 Hz.  
 [3] 1Hz = 60 cpm (cycles per minute).  
 [4] Typical.  
 [5] See PCB Declaration of Conformance PS039 or PS053 for details.

**SUPPLIED ACCESSORIES:**  
 Model 081A40 Mounting Stud (1)  
 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: <i>JRN</i>  | Engineer: <i>MSC</i> | Sales: <i>QMM</i>    | Approved: <i>NF</i>  | Spec Number: |
| Date: <i>9-22-06</i> | Date: <i>9/22/06</i> | Date: <i>9/22/06</i> | Date: <i>9/22/06</i> | <b>27244</b> |



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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