

| Performance | ENGLISH | SI | |
|------------------------------------|----------------------|----------------------------------|--------|
| Measurement Range | 0.0 to 10 g rms | 0.0 to 98.1 m/s ² rms | [1] |
| Output | 4-20 mA | 4-20 mA | |
| Frequency Range (±3 dB) | 180 to 600000 cpm | 3 to 10 kHz | [2][3] |
| Broadband Resolution | 0.05 g rms | 0.49 m/s ² rms | [4] |
| Non-Linearity | ±1 % | ±1 % | |
| Environmental | | | |
| Temperature Range | -40 to 185 °F | -40 to 85 °C | |
| Electrical | | | |
| Excitation Voltage | 12 to 30 VDC | 12 to 30 VDC | |
| Load Resistance | 50(Vs-12) Ohm | 50(Vs-12) Ohm | |
| Settling Time (within 2% of value) | <15 sec | <15 sec | |
| Electrical Isolation (Case) | >10 ⁸ Ohm | >10 ⁸ Ohm | |
| Physical | | | |
| 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 | No Metric Equivalent | |
| Mounting Torque | 3 to 5 ft-lb | 4 to 7 Nm | |
| 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 standard model except where noted below. More than one option maybe used.)

EX - Hazardous Area Approval- contact factory for specific approvals

| | | |
|-------------------------|---|---|
| Hazardous Area Approval | EEx ia IIC T4, - 40°C≤Ta≤80°C, II 1 G | EEx ia IIC T4, - 40°C≤Ta≤80°C, II 1 G |
| Hazardous Area Approval | EEx nL IIC T4, - 40°C≤Ta≤80°C, II 3 G | EEx nL IIC T4, - 40°C≤Ta≤80°C, II 3 G |
| Hazardous Area Approval | DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4 | 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 | 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 replaces Model 081A40

RV - Buffered Analog Signal Output - 100 mV/g (±20%)

| | | |
|--------------------------------|--------------------------|--------------------------|
| Electrical Connector | 3-Pin MIL-C-5015 | 3-Pin MIL-C-5015 |
| Electrical Connections (Pin A) | 4-20 mA Pos (+) | 4-20 mA Pos (+) |
| Electrical Connections (Pin B) | 4-20 mA | 4-20 mA |
| | Neg/Signal Output Neg | Neg/Signal Output Neg |
| Electrical Connections (Pin C) | Signal Output Pos | Signal Output Pos |

Notes

- [1] Conversion Factor 1g = 9.81 m/s².
- [2] 1Hz = 60 cpm (cycles per minute).
- [3] Current will fluctuate at frequencies below 5 Hz.
- [4] Typical.
- [5] See PCB Declaration of Conformance PS039 or PS053 for details.

Supplied Accessories

081A40 Mounting Stud (1)
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: LLH | Engineer: EGY | Sales: NJF | Approved: LLH | Spec Number: |
| Date: 09/13/2007 | Date: 08/30/2007 | Date: 09/11/2007 | Date: 09/18/2007 | 27377 |



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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