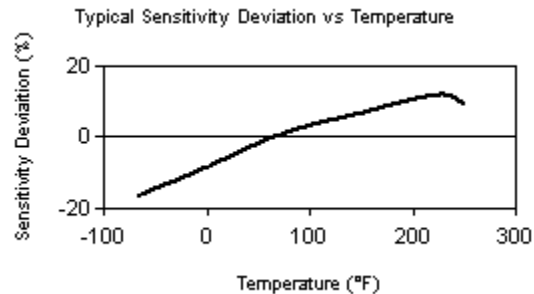


| | <u>ENGLISH</u> | <u>SI</u> | |
|--------------------------------------|----------------------|---------------------------------|--------|
| Performance | | | |
| Sensitivity(± 15 %) | 100 mV/g | 10.2 mV/(m/s ²) | [2] |
| Measurement Range | ± 50 g | ± 490 m/s ² | |
| Frequency Range(± 3 dB) | 30 to 600,000 cpm | 0.5 to 10,000 Hz | |
| Resonant Frequency | 1080 kcpm | 18 kHz | [1] |
| Broadband Resolution(1 to 10,000 Hz) | 350 µg | 3434 µm/sec ² | [1] |
| Non-Linearity | ± 1 % | ± 1 % | [3] |
| Transverse Sensitivity | ≤ 7 % | ≤ 7 % | |
| Environmental | | | |
| Overload Limit(Shock) | 5000 g pk | 49,050 m/s ² pk | |
| Temperature Range | -65 to +250 °F | -54 to +121 °C | |
| Temperature Response | See Graph | See Graph | [1] |
| 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 | |
| Output Impedance | <150 Ohm | <150 Ohm | |
| Output Bias Voltage | 8 to 12 VDC | 8 to 12 VDC | |
| Spectral Noise(10 Hz) | 8 µg/√Hz | 78.5 (µm/sec ²)/√Hz | [1] |
| Spectral Noise(100 Hz) | 5 µg/√Hz | 49.1 (µm/sec ²)/√Hz | [1] |
| Spectral Noise(1 kHz) | 4 µg/√Hz | 39.2 (µm/sec ²)/√Hz | [1] |
| Electrical Isolation(Case) | >10 ⁸ Ohm | >10 ⁸ Ohm | |
| Physical | | | |
| Size (Hex x Height) | 7/8 in x 1.23 in | 22 mm x 31.2 mm | |
| Weight | 3.7 oz | 105 gm | |
| Mounting | Stud | Stud | |
| Mounting Thread | 1/4-28 Male | 1/4-28 Male | |
| Mounting Torque(Stud) | 3 to 4 ft-lb | 4.1 to 5.4 Nm | [4][5] |
| Mounting Torque(hex nut) | 2 to 3 ft-lb | 2.7 to 4.1 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 | Side | Side | |



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.

| 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 - Hazardous Area Approval- contact factory for specific approvals | | |
| Hazardous Area Approval | Ex ia IIC T4, AExia IIC, T4 | Ex ia IIC T4, AExia IIC, T4 |
| Hazardous Area Approval | EEx nL IIC T4, -40°C≤Tas≤121° C, II 1 G | EEx nL IIC T4, -40°C≤Tas≤121° C, II 1 G |
| Hazardous Area Approval | CI I, Div I, Groups A, B, C, D; CI Cl I, Div I, Groups A, B, C, D; II, Div I, Groups E, F, G; CI III, Div I | CI I, Div I, Groups A, B, C, D; II, Div I, Groups E, F, G; CI III, Div I |
| Hazardous Area Approval | CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4 | CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4 |
| Hazardous Area Approval | EEx nL IIC T4, -40°C≤Tas≤121° C, II 3 G | EEx nL IIC T4, -40°C≤Tas≤121° C, II 3 G |
| M - Metric Mount | | |
| Supplied Accessory : Model M080A163A (1) replaces Model 080A162 | | |
| TO - Temperature Output | | |
| Temperature Output Range | +36 to +250 °F | +2 to +121 °C |
| Temperature Scale Factor | 5.56 mV/°F + 32 | +10 mV/°C |
| Electrical Connector | 3-Pin MIL-C-5015 | 3-Pin MIL-C-5015 |
| Electrical Connections(Pin A) | Acceleration Output | Acceleration Output |
| Electrical Connections(Pin B) | Ground | Ground |
| Electrical Connections(Pin C) | Temperature Output | Temperature Output |

NOTES:
 [1]Typical.
 [2]Conversion Factor 1g = 9.81 m/s².
 [3]Zero-based, least-squares, straight line method.
 [4]1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.
 [5]Stud torque must exceed sensor hex nut torque to ensure proper dismantling.
 [6]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
 Model 080A162 Mounting Stud (1)
 Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

| | | | | |
|------------------|------------------|------------------|------------------|--------------|
| Entered: AP | Engineer: DK | Sales: EGY | Approved: BAM | Spec Number: |
| Date: 10/10/2014 | Date: 10/10/2014 | Date: 10/10/2014 | Date: 10/10/2014 | 13832 |

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