

| | <u>ENGLISH</u> | <u>SI</u> | |
|--|---|-----------------------------------|-----|
| Performance | | | |
| Sensitivity(± 15 %) | 500 mV/lb | 112,405 mV/kN | |
| Measurement Range(Compression) | 10 lb | 0.0445 kN | |
| Maximum Static Force(Compression) | 60 lb | 0.267 kN | |
| Broadband Resolution(1 to 10,000 Hz) | 0.0002 lb-rms | 0.0008896 N-rms | [1] |
| Low Frequency Response(-5 %) | 0.01 Hz | 0.01 Hz | [2] |
| Upper Frequency Limit | 90 kHz | 90 kHz | [3] |
| Non-Linearity | ≤ 1 % FS | ≤ 1 % FS | [4] |
| Environmental | | | |
| Temperature Range | -65 to +250 °F | -54 to +121 °C | |
| Temperature Coefficient of Sensitivity | ≤ 0.03 %/°F | ≤ 0.054 %/°C | |
| Electrical | | | |
| Discharge Time Constant(at room temp) | ≥ 50 sec | ≥ 50 sec | |
| Excitation Voltage | 20 to 30 VDC | 20 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | ≤ 100 Ohm | ≤ 100 Ohm | |
| Output Bias Voltage | 8 to 14 VDC | 8 to 14 VDC | |
| Output Polarity(Compression) | Positive | Positive | |
| Physical | | | |
| Preload | 60 lb | 0.267 kN | |
| Stiffness | 12 lb/μin | 2.1 kN/μm | [1] |
| Size (Diameter x Height x Bolt Diameter x Sensing Surface) | 0.650 in x 0.310 in x 0.25 in x 0.50 in | 16.5 mm x 7.9 mm x 6 mm x 12.7 mm | |
| Size (ID)(Hole Diameter) | 0.251 in | 6.38 mm | |
| Size (OD)(Sensor) | 0.650 in | 16.51 mm | |
| Weight | 0.35 oz | 10 gm | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Hermetic | Hermetic | |
| Electrical Connector | 10-32 Coaxial Jack | 10-32 Coaxial Jack | |
| Electrical Connection Position | Side | Side | |

| 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. | | |
| N - Negative Output Polarity | | |
| Output Polarity(Compression) | Negative | Negative |
| W - Water Resistant Cable | | |
| Electrical Connector | Sealed Cable | Sealed Cable |
| Electrical Connection Position | Side | Side |

NOTES:
 [1] Typical.
 [2] Calculated from discharge time constant.
 [3] Estimated using rigid body dynamics calculations.
 [4] Zero-based, least-squares, straight line method.
 [5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
 Model 080A82 Assembly Lubricant (1)
 Model 081A11 Mounting Stud, 10-32 x 0.730, BeCu (1)
 Model 082B01 Anti-Friction Washer (1)
 Model 083B01 Pilot Bushing (1)
 Model M081A11 Mounting Stud, M5 x 0.8 x 0.730, BeCu (1)
 Model M083B01 Pilot Bushing (1)

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|-----------------|-----------------|-----------------|-----------------|--------------------|
| Entered: LK | Engineer: RPF | Sales: KK | Approved: RPF | Spec Number: |
| Date: 9/19/2018 | Date: 9/19/2018 | Date: 9/19/2018 | Date: 9/19/2018 | 201-2010-80 |



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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