

| | ENGLISH | SI | |
|--|-----------------------|-----------------------|--------|
| Performance | | | |
| Sensitivity(± 20 %)(Z Axis) | 2.5 mV/lb | 0.56 mV/N | |
| Sensitivity(± 20 %)(X or Y Axis) | 5 mV/lb | 1.12 mV/N | |
| Measurement Range(Z Axis) | 1,000 lb | 4.45 kN | |
| Measurement Range(X or Y Axis) | 1,000 lb | 4.45 kN | |
| Maximum Force(Z Axis) | 1,320 lb | 5.87 kN | |
| Maximum Force(X or Y Axis) | 1,100 lb | 4.89 kN | |
| Maximum Moment(Z Axis) | 40 ft-lb | 54.2 Nm | |
| Maximum Moment(X or Y Axis) | 70 ft-lb | 94.9 Nm | |
| Broadband Resolution(X or Y axis) | 0.006 lb-rms | 0.027 N-rms | [1] |
| Broadband Resolution(X or Y axis) | 0.006 lb-rms | 0.027 N-rms | [1] |
| Low Frequency Response(- 5 %)(Z-Axis) | 0.01 Hz | 0.01 Hz | |
| Low Frequency Response(- 5 %)(X or Y axis) | 0.001 Hz | 0.001 Hz | |
| Non-Linearity | ≤ 1 % FS | ≤ 1 % FS | [2] |
| Cross Talk(between X and Y Axis) | ± 3 % | ± 3 % | |
| Cross Talk(between (X or Y axis) and Z Axis) | ± 5 % | ± 5 % | |
| Environmental | | | |
| Temperature Range | -65 to +250 °F | -54 to +121 °C | |
| Electrical | | | |
| Full Scale Output(Z Direction) | ± 2.5 VDC | ± 2.5 VDC | |
| Full Scale Output(X and Y Direction) | ± 5 VDC | ± 5 VDC | |
| Discharge Time Constant(Z axis) | ≥ 50 sec | ≥ 50 sec | |
| Discharge Time Constant(X or Y axis) | ≥ 500 sec | ≥ 500 sec | |
| Excitation Voltage(all channels) | 20 to 30 VDC | 20 to 30 VDC | |
| Constant Current Excitation(all channels) | 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 | |
| Spectral Noise(1 Hz)(X & Y) | .001 lb/√Hz | .0044 N/√Hz | |
| Spectral Noise(10 Hz)(X & Y) | .0003 lb/√Hz | .00143 N/√Hz | |
| Spectral Noise(100 Hz)(X & Y) | .00008 lb/√Hz | .000366 N/√Hz | |
| Spectral Noise(1,000 Hz)(X & Y) | .00002 lb/√Hz | .000082 N/√Hz | |
| Spectral Noise(1 Hz)(X & Y) | .002 lb/√Hz | .0104 N/√Hz | |
| Spectral Noise(10 Hz)(Z) | .0006 lb/√Hz | .00256 N/√Hz | |
| Spectral Noise(100 Hz)(Z) | .0002 lb/√Hz | .00074 N/√Hz | |
| Spectral Noise(1,000 Hz)(Z) | .00005 lb/√Hz | .000227 N/√Hz | |
| Output Polarity | Positive | Positive | |
| Electrical Isolation | ≥ 10 ⁸ Ohm | ≥ 10 ⁸ Ohm | |
| Physical | | | |
| Stiffness(X or Y Axis) | 2.9 lb/μin | 510 N/μm | [1] |
| Stiffness(Z Axis) | 7.2 lb/μin | 1,260 N/μm | [1] |
| Stiffness(RX or RY Axis) | 2.8 E6 lbf*in/radian | 3.2E5 N*m/radian | [1][3] |
| Stiffness(RZ Axis) | 9.4 E5 lbf*in/radian | 1.1E5 N*m/radian | [1][3] |
| Coupled Stiffness(X or Y Axis) | 2.5 lbf*in/μin | 11 N*μm | [1][3] |
| Weight | 34.40 oz | 975 gm | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Hermetic | Hermetic | |
| Electrical Connector | 4-Pin | 4-Pin | |
| 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.

M - Metric Mount

W - Water Resistant Cable

NOTES:

[1] Typical.

[2] Zero-based, least-squares, straight line method.

[3] See PCB White Paper WPL_88_1121 for details.

[4] See PCB Declaration of Conformance PS023 for details.



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| Entered: ND | Engineer: EB | Sales: BS | Approved: RPF | Spec Number: |
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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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