

| Performance | ENGLISH | SI | |
|--|------------------------|------------------------|--------|
| Sensitivity(± 15 %)(Z Axis) | 15 pC/lb | 3.37 pC/N | [1] |
| Sensitivity(± 15 %)(X or Y Axis) | 32 pC/lb | 7.19 pC/N | [1] |
| Measurement Range(Z Axis) | 10,000 lb | 44.48 kN | |
| Measurement Range(X or Y Axis) | 4,000 lb | 17.7 kN | |
| Maximum Force(Z Axis) | 11,000 lb | 48.93 kN | |
| Maximum Force(X or Y Axis) | 4,400 lb | 19.57 kN | |
| Maximum Moment(Z Axis) | 375 ft-lb | 508.4 Nm | |
| Maximum Moment(X or Y Axis) | 940 ft-lb | 1274.5 Nm | |
| 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 | -100 to +350 °F | -73 to +177 °C | |
| Electrical | | | |
| Capacitance(all channels) | 70 pF | 70 pF | [3] |
| Insulation Resistance(all channels) | ≥ 10 ¹² Ohm | ≥ 10 ¹² Ohm | |
| Output Polarity(in direction of markings) | Negative | Negative | |
| Electrical Isolation | ≥ 10 ⁸ Ohm | ≥ 10 ⁸ Ohm | |
| Physical | | | |
| Preload | ≤ 40,000 lb | ≤ 178 kN | [4] |
| Stiffness(X or Y Axis) | 6.9 lb/μin | 1,215 N/μm | [3][5] |
| Stiffness(Z Axis) | 37.9 lb/μin | 6,645 N/μm | [3][5] |
| Stiffness(RX or RY Axis) | 1.1E7 lb*in/radian | 1.3E6 N*m/radian | [3][5] |
| Stiffness(Z Axis) | 1.2E7 lb*in/radian | 1.4E6 N-m/radian | [3][5] |
| Coupled Stiffness(X-RY or Y-RX Axis) | 0.6 lb*in/μin | 2.7 N*m/μm | [3][5] |
| Weight | 9.88 oz | 280 gm | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Sealing | Hermetic | Hermetic | |
| Electrical Connector(Quantity, 3) | 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.

W - Water Resistant Cable

NOTES:

[1]Sensitivities are dependent upon supplied bolt.
 [2]Zero-based, least-squares, straight line method.
 [3]Typical.
 [4]Preload should be at least 10 times the X and Y operating range used.
 [5]See PCB White Paper WPL_88_1121 for details.
 [6]See PCB Declaration of Conformance PS158 for details.

SUPPLIED ACCESSORIES:

Model 081A71 Mounting Stud (1)
 Model 082B06 Anti-Friction Washer (1)
 Model 083A11 Pilot Bushing (1)
 Model M081A71 Mounting Stud (1)

| | | | | |
|------------------|------------------|------------------|------------------|--------------|
| Entered: ND | Engineer: EB | Sales: BS | Approved: RPF | Spec Number: |
| Date: 08/07/2025 | Date: 08/07/2025 | Date: 08/07/2025 | Date: 08/07/2025 | 78395 |



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.

Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com

3425 Walden Avenue, Depew, NY 14043