

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 20 %)(Z Axis)	100 mV/lb	22.5 mV/N	
Sensitivity(± 20 %)(X or Y Axis)	500 mV/lb	112 mV/N	
Measurement Range(Z Axis)	25 lb	0.111 kN	
Measurement Range(X or Y Axis)	10 lb	0.044 kN	
Maximum Force	300 lb	1.334 kN	
Maximum Force(X or Y Axis)	60 lb	0.267 kN	
Maximum Moment(Z Axis)	14 ft-lb	19.0 Nm	
Maximum Moment(X or Y Axis)	13 ft-lb	17.6 Nm	
Broadband Resolution(Z Axis)	0.0003 lb-rms	0.0133 N-rms	[1]
Broadband Resolution(X or Y Axis)	0.00004 lb-rms	0.0002 N-rms	[1]
Low Frequency Response(- 5 %)(Z-Axis)	0.01 Hz	0.01 Hz	
Low Frequency Response(- 5 %)(X or Y axis)	0.01 Hz	0.01 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 %	
<b>Environmental</b>			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
<b>Electrical</b>			
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)	≥ 50 sec	≥ 50 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	
Electrical Isolation(Base)	≥ 10 <sup>8</sup>	≥ 10 <sup>8</sup>	
<b>Physical</b>			
Stiffness(X or Y Axis)	1.9 lb/μin	330 N/μm	[1]
Stiffness(Z Axis)	4.9 lb/μin	860 N/μm	[1]
Stiffness(RX or RY Axis)	7.5E5 lbf*in/radian	8.5E4 N*m/radian	[1][3]
Stiffness(RZ Axis)	3.4E5 lbf*in/radian	3.8E4 N*m/radian	[1][3]
Coupled Stiffness(X-RY or Y-RX Axis)	1.0 lbf*in/μin	4.4 N*m/μm	[1][3]
Weight	13.60 oz	386 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.



Entered: ND	Engineer: EB	Sales: BS	Approved: RPF	Spec Number:
Date: 11/23/2022	Date: 11/23/2022	Date: 11/23/2022	Date: 11/23/2022	39306

**PCB PIEZOTRONICS**  
AN AMPHENOL COMPANY

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

3425 Walden Avenue, Depew, NY 14043

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 Piezotronics, Inc.