

Model Number 261B02		3-COMPONENT ICP® FORCE SENSOR		Revision: C ECN #: 55942											
Performance		ENGLISH	SI	OPTIONAL VERSIONS											
Sensitivity(± 20 %)(Z Axis)		2.5 mV/lb	0.56 mV/N	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											
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)		58 ft-lb	78.6 Nm												
Maximum Moment(X or Y Axis)		96 ft-lb	130.2 Nm												
Broadband Resolution(Z Axis)		0.005 lb-rms	0.0222 N-rms												
Broadband Resolution(X or Y Axis)		0.003 lb-rms	0.0133 N-rms												
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												
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)		0.001 lb/√Hz	.0044 N√Hz												
Spectral Noise(10 Hz)(X & Y)		0.0003 lb/√Hz	0.00133 N√Hz												
Spectral Noise(100 Hz)(X & Y)		0.00008 lb/√Hz	0.000356 N√Hz												
Spectral Noise(1,000 Hz)(X & Y)		0.00002 lb/√Hz	0.000089 N√Hz												
Spectral Noise(1 Hz)(Z)		0.002 lb/√Hz	0.0089 N√Hz												
Spectral Noise(10 Hz)(Z)		0.0005 lb/√Hz	0.00222 N√Hz												
Spectral Noise(100 Hz)(Z)		0.0002 lb/√Hz	0.00089 N√Hz												
Spectral Noise(1,000 Hz)(Z)		0.00005 lb/√Hz	0.000222 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												
Stiffness(Z Axis)		7.2 lb/μin	1,260 N/μm												
Stiffness(RX or RY Axis)		2.8 E6 lbf*in/radian	3.2E5 N*m/radian												
Stiffness(RZ Axis)		9.4 E5 lbf*in/radian	1.1E5 N*m/radian												
Coupled Stiffness(X or Y Axis)		2.5 lbf*in/μin	11 N*m/μm												
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												
		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.													
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.		<table><tr><td>Entered: ND</td><td>Engineer: EB</td><td>Sales: BS</td><td>Approved: RPF</td><td>Spec Number:</td></tr><tr><td>Date: 08/14/2025</td><td>Date: 08/14/2025</td><td>Date: 08/14/2025</td><td>Date: 08/14/2025</td><td>74523</td></tr></table> Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com 3425 Walden Avenue, Depew, NY 14043				Entered: ND	Engineer: EB	Sales: BS	Approved: RPF	Spec Number:	Date: 08/14/2025	Date: 08/14/2025	Date: 08/14/2025	Date: 08/14/2025	74523
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