

Model Number 260M36A	3-COMPONENT ICP® FORCE SENSOR			Revision: NR ECN #: 56087
Performance		ENGLISH	SI	OPTIONAL VERSIONS
Sensitivity(± 20 %)(Z Axis)		490 mV/lb	110 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.
Sensitivity(± 20 %)(X or Y Axis)		490 mV/lb	110 mV/N	
Measurement Range(Z Axis)		10.1 lb	45 N	
Measurement Range(X or Y Axis)		10.1 lb	45 N	
Maximum Force(Z Axis)		13.5 lb	60 N	
Maximum Force(X or Y Axis)		13.5 lb	60 N	
Maximum Moment(Z Axis)		6 ft-lb	8.1 Nm	
Maximum Moment(X or Y Axis)		9 ft-lb	12.2 Nm	
Broadband Resolution(z axis)		≤ 0.0003 lb-rms	≤ 0.0013 N-rms	
Broadband Resolution(x or y axis)		≤ 0.0003 lb-rms	≤ 0.0013 N-rms	
Low Frequency Response(- 5 %)(Z-Axis)		0.02 Hz	0.02 Hz	[3]
Low Frequency Response(- 5 %)(X or Y Axis)		0.01 Hz	0.01 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)		± 5 VDC	± 5 VDC	
Full Scale Output(X and Y Direction)		± 5 VDC	± 5 VDC	
Discharge Time Constant(Z Axis)		≥ 25 sec	≥ 25 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	
Spectral Noise(1 Hz)(X & Y)		300 µlb/√Hz	1,350 µN/√Hz	[4]
Spectral Noise(10 Hz)(X & Y)		150 µlb/√Hz	670 µN/√Hz	[4]
Spectral Noise(100 Hz)(X & Y)		50 µlb/√Hz	230 µN/√Hz	[4]
Spectral Noise(1,000 Hz)(X & Y)		2.3 µlb/√Hz	10 µN/√Hz	[4]
Spectral Noise(10,000 Hz)(X & Y)		0.7 µlb/√Hz	3 µN/√Hz	[4]
Spectral Noise(1 Hz)(Z)		150 µlb/√Hz	670 µN/√Hz	[4]
Spectral Noise(10 Hz)(Z)		55 µlb/√Hz	250 µN/√Hz	[4]
Spectral Noise(100 Hz)(Z)		20 µlb/√Hz	90 µN/√Hz	[4]
Spectral Noise(1,000 Hz)(Z)		2.3 µlb/√Hz	10 µN/√Hz	[4]
Spectral Noise(10,000 Hz)(Z)		0.7 µlb/√Hz	3 µN/√Hz	[4]
Output Polarity		Positive	Positive	
Electrical Isolation		≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	
Physical				
Preload Torque		56 in-lb	6.3 Nm	[5][6]
Stiffness(X or Y Axis)		2.5 lb/µin	440 N/µm	[4][7]
Stiffness(Z Axis)		10.0 lb/µin	1,755 N/µm	[4][7]
Stiffness(RX or RY Axis)		4.1E5 lbf*in/radian	4.6E4 N*m/radian	[4][7]
Stiffness(RZ Axis)		4.7E5 lbf*in/radian	5.3E4 N*m/radian	[4][7]
Coupled Stiffness		0.3 lbf*in/µin	1.3 N*m/µm	[4][7]
Weight		0.937 oz	26.57 gm	
Housing Material		Stainless Steel	Stainless Steel	
Sealing		Hermetic	Hermetic	
Electrical Connector		4-Pin	4-Pin	
Electrical Connection Position		Side	Side	
NOTES:				
[1]Sensitivities are dependent upon supplied bolt.				
[2]Sensitivities are for listed preload. Sensitivities may vary ±5% depending on preload used.				
[3]Zero-based, least-squares, straight line method.				
[4]Typical.				
[5]Perform in steps of 2.5 in-lbs (28 N cm) to protect electronics (40 V max).				
[6]Apply thin layer of lithium grease to sliding surfaces (washer, nut, threads).				
[7]See PCB White Paper WPL_88_1121 for details.				
[8]See PCB Declaration of Conformance PS023 for details.				
SUPPLIED ACCESSORIES:				
Model 082B02 Anti-Friction Washer (1)				
Model 083A10 Pilot Bushing (1)				
Model M081A70 Mounting Stud (1)				
Entered: ND	Engineer: EB	Sales: BS	Approved: RPF	Spec Number:
Date: 09/19/2025	Date: 09/19/2025	Date: 09/19/2025	Date: 09/19/2025	80979
 PCB PIEZOTRONICS AN AMPHENOL COMPANY Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com				
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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.