

Model Number 260B02		3-COMPONENT ICP® FORCE SENSOR		Revision: NR ECN #: 55942	
Performance		ENGLISH		SI	
Sensitivity(± 20 %)(Z Axis)		2.5 mV/lb		0.56 mV/N [1]	
Sensitivity(± 20 %)(X or Y Axis)		5 mV/lb		1.12 mV/N [1]	
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 [2]	
Broadband Resolution(X or Y axis)		0.003 lb-rms		0.0133 N-rms [2]	
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 [3]	
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		≥ 1,000,000 Ohm		≥ 1,000,000 Ohm	
Physical					
Preload		10,000 lb		44.48 kN [4]	
Stiffness(X or Y Axis)		3.4 lb/μin		602 N/μm [2][5]	
Stiffness(Z Axis)		16.5 lb/μin		2,886 N/μm [2][5]	
Stiffness(RX or RY Axis)		1.3E6 lbf*in/radian		1.4E5 N*m/radian [2][5]	
Stiffness(RZ Axis)		1.5E6 lbf*in/radian		1.7E5 N*m/radian [2][5]	
Coupled Stiffness		0.4 lbf*in/μin		1.8 N*m/μm [2][5]	
Weight		1.545 oz		43.79 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.					
W - Water Resistant Cable					
NOTES:					
[1]Sensitivities are dependent upon supplied bolt.					
[2]Typical.					
[3]Zero-based, least-squares, straight line method.					
[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 PS023 for details.					
SUPPLIED ACCESSORIES:					
Model 081A74 Pre-load bolt (1)					
Model 082M12 Anti-friction washer (1)					
Model 083A13 Pilot bushing (1)					
Model M081A74 Mounting Stud (1)					
Entered: ND		Engineer: EB		Sales: BS	
Date: 08/14/2025		Date: 08/14/2025		Date: 08/14/2025	
				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.					