

Model Number 260B01	3-COMPONENT ICP® FORCE SENSOR			Revision: A ECN #: 55753										
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. W - Water Resistant Cable										
Sensitivity(± 20 %)(X or Y Axis)		10 mV/lb	2.25 mV/N											
Measurement Range(Z Axis)		1,000 lb	4.45 kN											
Measurement Range(X or Y Axis)		500 lb	2.22 kN											
Maximum Force(Z Axis)		1,320 lb	5.87 kN											
Maximum Force(X or Y Axis)		660 lb	2.94 kN											
Maximum Moment(Z Axis)		16 ft-lb	21.7 Nm											
Maximum Moment(X or Y Axis)		37 ft-lb	50.2 Nm											
Broadband Resolution(z axis)		0.006 lb-rms	0.027 N-rms											
Broadband Resolution(x or y axis)		0.002 lb-rms	0.0089 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)		0.0003 lb/√Hz	0.00134 N/√Hz											
Spectral Noise(10 Hz)(X & Y)		0.00015 lb/√Hz	0.000668 N/√Hz											
Spectral Noise(100 Hz)(X & Y)		0.00005 lb/√Hz	0.000223 N/√Hz											
Spectral Noise(1,000 Hz)(X & Y)		0.000015 lb/√Hz	0.0000668 N/√Hz											
Spectral Noise(1 Hz)(Z)		0.0015 lb/√Hz	0.00668 N/√Hz											
Spectral Noise(10 Hz)(Z)		0.00055 lb/√Hz	0.00245 N/√Hz											
Spectral Noise(100 Hz)(Z)		0.0002 lb/√Hz	0.000891 N/√Hz											
Spectral Noise(1,000 Hz)(Z)		0.000055 lb/√Hz	0.000245 N/√Hz											
Output Polarity		Positive	Positive											
Electrical Isolation		≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm											
Physical														
Preload		5,000 lb	22.24 kN											
Stiffness(X or Y Axis)		2.5 lb/μin	440 N/μm											
Stiffness(Z Axis)		10.0 lb/μin	1,755 N/μm											
Stiffness(RX or RY Axis)		4.1E5 lbf*in/radian	4.6E4 N*m/radian											
Stiffness(RZ Axis)		4.7E5 lbf*in/radian	5.3E4 N*m/radian											
Coupled Stiffness		0.3 lbf*in/μin	1.3 N*m/μm											
Weight		.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]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 081A70 Mounting Stud (1) Model 082B02 Anti-Friction Washer (1) Model 083A10 Pilot Bushing (1) Model M081A70 Mounting Stud (1)														
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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.