


Model Number 260A01	FORCE SENSOR, ICP[®], 3-COMPONENT		Revision N ECN #: 29835								
Performance	ENGLISH	SI									
Sensitivity (±20 %) (z axis)	2.5 mV/lb	0.56 mV/N	[1][2]								
Sensitivity (±20 %) (x or y axis)	10 mV/lb	2.25 mV/N	[1][2]								
Measurement Range (z axis)	1000 lb	4.45 kN									
Measurement Range (x or y axis)	500 lb	2.22 kN									
Maximum Force (z axis)	1320 lb	5.87 kN									
Maximum Force (x or y axis)	660 lb	2.94 kN									
Maximum Moment (z axis)	14 ft-lb	18.98 Nm									
Maximum Moment (x or y axis)	13 ft-lb	17.63 Nm									
Broadband Resolution (z axis)	0.006 lb-rms	0.027 N-rms	[3]								
Broadband Resolution (x or y axis)	0.002 lb-rms	0.0089 N-rms	[3]								
Upper Frequency Limit	90 kHz	90 kHz									
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	[4]								
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 (1000 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 (1000 Hz) (Z)	0.000055 lb/√Hz	0.000245 N/√Hz									
Output Polarity	Positive	Positive									
Physical											
Preload	5000 lb	22.25 kN	[5]								
Stiffness (z axis)	10 lb/μin	1.75 kN/μm	[3]								
Stiffness (x or y axis)	4 lb/μin	0.7 kN/μm	[3]								
Size (Height x Length x Width x Bolt Diameter x ID x Sensing Surface)	0.390 in x 1.075 in x 0.95 in x 0.205 in x 0.319 in x 0.680 in	9.90 mm x 27.3 mm x 24.1 mm x 5.21 mm x 8.10 mm x 17.27 mm									
Weight	0.927 oz	26.27 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 standard model except where noted below. More than one option maybe used.)	M - Metric Mount	Supplied Accessory: Model M081A70 Mounting Stud replaces Model 081A70									
W - Water Resistant Cable	Electrical Connection Position	Side	Side								
Notes	[1] Sensitivites are for listed preload. Sensitivites may vary ±5% depending on preload used.	[2] Sensitivites are dependent upon supplied bolt.	[3] Typical.								
	[4] Zero-based, least-squares, straight line method.	[5] Preload should be at least 10 times the X and Y operating range used.	[6] See PCB Declaration of Conformance PS023 for details.								
Supplied Accessories	081A70 Mounting Stud (1)	082B02 Anti-Friction Washer (1)	083A10 Pilot Bushing (1)								
<table border="1"> <tr> <td>Entered: LLH</td> <td>Engineer: BAM</td> <td>Sales: KWW</td> <td>Approved: LLH</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 12/15/2008</td> <td>Date: 12/12/2008</td> <td>Date: 12/12/2008</td> <td>Date: 12/15/2008</td> <td>7753</td> </tr> </table>	Entered: LLH	Engineer: BAM	Sales: KWW	Approved: LLH	Spec Number:	Date: 12/15/2008	Date: 12/12/2008	Date: 12/12/2008	Date: 12/15/2008	7753	 <p>3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 800-828-8840 Fax: 716-684-0987 E-mail: info@pcb.com Web site: www.pcb.com</p>
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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.

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