



Model Number 200B04		<b>ICP® FORCE SENSOR</b>		Revision: H ECN #: 31810			
<b>Performance</b>			<b>OPTIONAL VERSIONS</b>				
Sensitivity(± 15 %)	<u>ENGLISH</u> 5 mV/lb	<u>SI</u> 1124 mV/kN	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.				
Measurement Range(Compression)	1000 lb	4.448 kN					
Maximum Static Force(Compression)	5000 lb	22.24 kN					
Broadband Resolution(1 to 10,000 Hz)	0.02 lb-rms	0.089 N-rms	[1] <b>N</b> - Negative Output Polarity				
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	[2] Output Polarity(Compression)	Negative	Negative		
Upper Frequency Limit	75 kHz	75 kHz	[3]				
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4] <b>W</b> - Water Resistant Cable				
<b>Environmental</b>			Electrical Connector	Sealed Cable	Sealed Cable		
Temperature Range	-65 to +250 °F	-54 to +121 °C	Electrical Connection Position	Side	Side		
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C					
<b>Electrical</b>			<b>NOTES:</b>				
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec	[1] Typical.				
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	[2] Zero-based, least-squares, straight line method.				
Constant Current Excitation	2 to 20 mA	2 to 20 mA	[3] Estimated using rigid body dynamics calculations.				
Output Impedance	≤ 100 ohm	≤ 100 ohm	[4] Calculated from discharge time constant.				
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	[5] See PCB Declaration of Conformance PS023 for details.				
Output Polarity(Compression)	Positive	Positive					
<b>Physical</b>			<b>SUPPLIED ACCESSORIES:</b>				
Stiffness	11 lb/μin	1.9 kN/μm	Model 080A81 Thread Locker (1)				
Size (Diameter x Height x Sensing Surface)	0.650 in x 0.360 in x 0.500 in	16.51 mm x 9.14 mm x 12.7 mm	Model 081B05 Mounting Stud (10-32 to 10-32) (1)				
Weight	0.5 oz	14 gm	Model 084A83 Impact Pad (1)				
Housing Material	Stainless Steel	Stainless Steel	Model M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (1)				
Sealing	Hermetic	Hermetic					
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack					
Electrical Connection Position	Side	Side					
Mounting Thread	10-32 Female	10-32 Female					
			Entered: BLS	Engineer: BM	Sales: JLM	Approved: EB	Spec Number:
			Date: 11-23-09	Date: 11-23-09	Date: 11-23-09	Date: 11-23-09	200-2040-80
 [5]			 <b>PCB PIEZOTRONICS™</b> <b>FORCE / TORQUE DIVISION</b> 3425 Walden Avenue, Depew, NY 14043			Phone: 716-684-0001 Fax: 716-684-8877 E-Mail: force@pcb.com	
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 Group, Inc.							



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