



Model Number	ICP® FORCE SENSOR			Revision: G
200B05				ECN #: 30055
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 15 %)	1 mV/lb	224.82 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)	5000 lb	22.24 kN		
Maximum Static Force(Compression)	8000 lb	35.59 kN		
Broadband Resolution(1 to 10,000 Hz)	0.10 lb-rms	0.4448 N-rms	[1]	N - 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]	W - Water Resistant Cable
Environmental				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		
Electrical				NOTES:
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		
Physical				SUPPLIED ACCESSORIES:
Stiffness	11 lb/μin	1.9 kN/μm	[1]	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: RWM Approved: FB Spec Number:
[5]				Date: 2/10/09 Date: 2/10/09 Date: 2/10/09 Date: 2/9/09 200-2050-80
<i>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.</i>				 FORCE / TORQUE DIVISION 3425 Walden Avenue, Depew, NY 14043
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