



Model Number 223B	ICP® FORCE SENSOR			Revision: L ECN #: 46037
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 15 %)	0.42 mV/lb	94.42 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)	12,000 lb	53.38 kN		J - Ground Isolated
Measurement Range(Tension)	4000 lb	17.79 kN		M - Metric Mount
Maximum Static Force(Compression)	12,500 lb	55.60 kN		Mounting Thread
Maximum Static Force(Tension)	4500 lb	20.02 kN		M12 x 1.25 Female
Broadband Resolution(1 to 10,000 Hz)	0.40 lb-rms	1.78 N-rms	[1]	N - Negative Output Polarity
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	[2]	Output Polarity(Compression)
Upper Frequency Limit	10,000 Hz	10,000 Hz	[3]	Negative
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]	Negative
Environmental				W - Water Resistant Cable
Temperature Range	-65 to +250 °F	-54 to +121 °C		Electrical Connector
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		Sealed Cable
Electrical				Electrical Connection Position
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec		Side
Excitation Voltage	20 to 30 VDC	20 to 30 VDC		Side
Constant Current Excitation	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		
Output Polarity(Compression)	Positive	Positive		
Physical				NOTES:
Stiffness	4 lb/µin	0.70 kN/µm	[1]	[1] Typical.
Size (Diameter x Height)	1.10 in x 2.00 in	27.94 mm x 50.8 mm		[2] Calculated from discharge time constant.
Weight	4.2 oz	120 gm		[3] Estimated using rigid body dynamics calculations.
Housing Material	Stainless Steel	Stainless Steel		[4] Zero-based, least-squares, straight line method.
Sealing	Hermetic	Hermetic		[5] See PCB Declaration of Conformance PS023 for details.
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position	Side	Side		
Mounting Thread	1/2 - 20 Female	1/2 - 20 Female		
				Entered: LK Engineer: BAM Sales: KWW Approved: BAM Spec Number:
				Date: 10/7/2016 Date: 10/7/2016 Date: 10/7/2016 Date: 10/7/2016 1290
<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>				 Phone: 716-684-0001
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