

Model Number 208M133	ICP® FORCE SENSOR	Revision: C ECN #: 45224
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Performance	ENGLISH	SI	
Sensitivity(± 10 %)	10 mV/lb	2248 mV/kN	
Measurement Range(Compression)	500 lb	2.224 kN	
Measurement Range(Tension)	500 lb	2.224 kN	
Maximum Static Force(Compression)	5000 lb	22.24 kN	
Maximum Static Force(Tension)	500 lb	2.224 kN	
Broadband Resolution(1 to 10,000 Hz)	0.01 lb-rms	0.0448 N-rms	[1]
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	[2]
Upper Frequency Limit	36,000 Hz	36,000 Hz	[3]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.09 %/°C	
Electrical			
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
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	
Spectral Noise(1 Hz)	0.000211 lb/√Hz	0.000942 N/√Hz	[1]
Spectral Noise(10 Hz)	0.000109 lb/√Hz	0.000488 N/√Hz	[1]
Spectral Noise(100 Hz)	0.0000387 lb/√Hz	0.000173 N/√Hz	[1]
Spectral Noise(1000 Hz)	0.0000086 lb/√Hz	0.0000385 N/√Hz	[1]
Output Polarity(Compression)	Positive	Positive	
Physical			
Stiffness	6 lb/μin	1.05 kN/μm	[1]
Size (Diameter x Height)	0.625 in x 0.625 in	15.88 mm x 15.88 mm	
Weight	0.93 oz	26 gm	
Housing Material	Stainless Steel	Stainless Steel	
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	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

[1]Typical.
 [2]Calculated from discharge time constant.
 [3]Estimated using rigid body dynamics calculations.
 [4]Zero-based, least-squares, straight line method.
 [5]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 081B05 Mounting Stud (10-32 to 10-32) (2)
 Model 084A03 Impact Cap (1)

Entered: LK	Engineer: MJK	Sales: KWW	Approved: APB	Spec Number:
Date: 3/29/2016	Date: 3/29/2016	Date: 3/29/2016	Date: 3/29/2016	4630



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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