200B05			ICP® FURCE	<b>5</b> 1
Performance		ENGLISH	<u>SI</u>	
Sensitivity(± 15 %)		1 mV/lb	224.82 mV/kN	
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]
Low Frequency Response(-5 %)		0.0003 Hz	0.0003 Hz	[2]
Upper Frequency Limit		75 kHz	75 kHz	[3]
Non-Linearity		≤1 % FS	≤1 % FS	[4]
Environmental				
Temperature Range		-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity		≤0.03 %/°F	≤0.054 %/°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	
Output Polarity(Compression)		Positive	Positive	
Physical				
Stiffness		11 lb/μin	1.9 kN/μm	[1]
Size (Diameter x Height x Sensing Surface)			16,51 mm x 9.14 mm x 12.7 mm	
Weight		0.5 oz	14 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	



Model Number

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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## **ICP® FORCE SENSOR**

Revision: G

ECN #: 30055

## **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.

N - Negative Output Polarity

Output Polarity(Compression)

Negative

Negative

W - Water Resistant Cable **Electrical Connection Position** 

Electrical Connector

Sealed Cable Side

Sealed Cable Side

## NOTES:

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

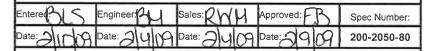
## **SUPPLIED ACCESSORIES:**

Model 080A81 Thread Locker (1)

Model 081B05 Mounting Stud (10-32 to 10-32) (1)

Model 084A83 Impact Pad (1)

Model M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (1)





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