Model Number	ICP® FORCE SENSOR	Revision: D
201B05		ECN #: 35154

Performance	ENGLISH	SI	
Sensitivity(± 15 %)	1 mV/lb	224.8 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	90 kHz	90 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			
Preload	1000 lb	4.448 kN	
Stiffness	12 lb/µin	2.1 kN/µm	[1]
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	0.650 in x 0.310 in x 0.25 in x 0.50 in	16.5 mm x 7.9 mm x 6 mm x 12.7 mm	
Size (ID)(Hole Diameter)	0.251 in	6.38 mm	
Size (OD)(Sensor)	0.650 in	16.51 mm	
Weight	0.35 oz	10 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	

CE [5]

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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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 Connector	Sealed Cable	Sealed Cable
Electrical Connection Position	Side	Side

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 080A82 Assembly Lubricant (1)
Model 081A11 Mounting Stud, 10-32 x 0.730, BeCu (1)
Model 082B01 Anti-Friction Washer (1)
Model 083B01 Pilot Bushing (1)
Model M081A11 Mounting Stud, M5 x 0.8 x 0.730, BeCu (1)
Model M083B01 Pilot Bushing (1)

Entered:	Engineer:	Sales:	Approved:	Spec Number:
Date: 3/1/11	Date: 3/1/11	Date: 3/1/11	Date: 3/1/11	201-2050-80

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