

Model Number 213B	CHARGE OUTPUT FORCE SENSOR				Revision: E ECN #: 41735
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Sensitivity(± 15 %)	18 pC/lb	4047 pC/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. M - Metric Mount Supplied Accessory : Model 080A82 Assembly Lubricant Supplied Accessory : Model 082B03 Anti-friction washer (for Models 203B and 213B) Supplied Accessory : Model M081A13 Mounting Stud, M10 x 1.00 x 1.100, BeCu Supplied Accessory : Model M083B03 Pilot Bushing P - Positive Output Polarity W - Water Resistant Cable Electrical Connector Molded Integral Cable Molded Integral Cable Electrical Connection Position Side Side
Measurement Range(Compression)	≤ 20,000 lb	≤ 88.96 kN			
Maximum Static Force(Compression)	25,000 lb	111.2 kN			
Upper Frequency Limit	60,000 Hz	60,000 Hz	[2][3]		
Non-Linearity	≤ 1 % FS	≤ 1 % FS		[4]	
Environmental					
Temperature Range	-100 to +400 °F	-73 to +204 °C			
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.09 %/°C			
Electrical					
Capacitance	27 pF	27 pF		[1]	
Insulation Resistance	≥ 1E12	≥ 1E12			
Physical					
Preload	4000 lb	17.793 kN			
Stiffness	23 lb/μin	4 kN/μm		[1]	
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	1.10 in x 0.430 in x 1/2 in x 0.888 in	27.9 mm x 10.9 mm x 12 mm x 22.6 mm			
Size (ID)(Hole Diameter)	0.520 in	13.2 mm			
Size (OD)(Sensor)	1.10 in	27.9 mm			
Weight	1.3 oz	38 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			
<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>					
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NOTES: [1] Typical. [2] Estimated using rigid body dynamics calculations. [3] Low frequency response and system noise dependent on choice of external signal conditioning electronics. [4] Zero-based, least-squares, straight line method.					
SUPPLIED ACCESSORIES: Model 080A82 Assembly Lubricant Model 081A13 Mounting Stud, 3/8-24 x 1.100, BeCu Model 082B03 Anti-friction washer (for Models 203B and 213B) Model 083B03 Pilot bushing (for Models 203B and 213B)					
Entered: AP	Engineer: MJK	Sales: KWW	Approved: APB	Spec Number:	
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