

Model Number 211B	CHARGE OUTPUT FORCE SENSOR	Revision: H ECN #: 48697
-----------------------------	-----------------------------------	-----------------------------

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 15 %)	18 pC/lb	4047 pC/kN	
Measurement Range(Compression)	≤ 5000 lb	≤ 22.24 kN	
Maximum Static Force(Compression)	8000 lb	35.59 kN	
Upper Frequency Limit	90 kHz	90 kHz	[2][3]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Environmental			
Temperature Range	-100 to +400 °F	-73 to +204 °C	
Temperature Coefficient of Sensitivity	≤ 0.02 %/°F	≤ 0.036 %/°C	
Electrical			
Capacitance	≥ 12 pF	≥ 12 pF	[1]
Insulation Resistance	≥ 1E12	≥ 1E12	
Output Polarity(Compression)	Negative	Negative	
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 7.88 mm x 6 mm x 12.7 mm	
Size (ID)(Hole Diameter)	0.251 in	6.37 mm	
Size (OD)(Sensor)	0.650 in	16.5 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	

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.		
P - Positive Output Polarity		
Output Polarity(Compression)	Positive	Positive
W - Water Resistant Cable		
Electrical Connector	Molded Integral Cable	Molded Integral Cable
Electrical Connection Position	Side	Side

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.
 [5] See PCB Declaration of Conformance PS158 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)



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.
 ICP® is a registered trademark of PCB Group, Inc.

Entered: LK	Engineer: RPF	Sales: RWM	Approved: BAM	Spec Number:
Date: 9/24/2018	Date: 9/24/2018	Date: 9/24/2018	Date: 9/24/2018	211-2010-80

 3425 Walden Avenue, Depew, NY 14043	Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com
--	---