Model Number	CHARGE OUTPUT FORCE SENSOR	Revision: F
215B		ECN #: 48697

Performance	**ENGLISH**	**SI**	
Sensitivity(± 15 %)	18 pC/lb	4047 pC/kN	
Measurement Range(Compression)	≤ 60,000 lb	≤ 266.9 kN	
Maximum Static Force(Compression)	70,000 lb	311.4 kN	
Upper Frequency Limit	50 kHz	50 kHz	[2][3]
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]
Environmental			
Temperature Range	-100 to +400 °F	-73 to +204 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Electrical			
Capacitance	38 pF	38 pF	[1]
Insulation Resistance	≥ 1E12	≥ 1E12	
Physical			
Preload	12,000 lb	53.379 kN	
Stiffness	40 lb/µin	7 kN/µm	[1]
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	1.580 in x 0.510 in x 3/4 in x 1.375 in	40.13 mm x 12.95 mm x 21 mm x 34.93 mm	
Size (ID)(Hole Diameter)	0.830 in	21.08 mm	
Size (OD)(Sensor)	1.580 in	40.13 mm	
Weight	2.82 oz	80 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.

M - Metric Mount
Supplied Accessory : Model 080A82 Assembly Lubricant
Supplied Accessory : Model 082B05 Anti-friction washer (for Models 205B and 215B)
Supplied Accessory : Model M081A15 Mounting Stud, M16 x 1.50 x 1.650, BeCu
Supplied Accessory : Model M083B05 Pilot Bushing

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
Model 081A15 Mounting Stud, 5/8-18 x 1.650, BeCu
Model 082B05 Anti-friction washer (for Models 205B and 215B)
Model 083B05 Pilot bushing (for Models 205C and 215B)

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	**1039**

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