

Model Number 260A13	<b>3-COMPONENT CHARGE OUTPUT FORCE SENSOR</b>	Revision: P ECN #: 44711
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 15 %)(z axis)	15 pC/lb	3.37 pC/N	[2]
Sensitivity(± 15 %)(x or y axis)	32 pC/lb	7.19 pC/N	[2]
Measurement Range(z axis)	10,000 lb	44.48 kN	
Measurement Range(x or y axis)	4000 lb	17.7 kN	
Maximum Force(z axis)	11,000 lb	48.93 kN	
Maximum Force(x or y axis)	4400 lb	19.57 kN	
Maximum Moment(z axis)	240 ft-lb	325.4 Nm	
Maximum Moment(x or y axis)	325 ft-lb	440.7 Nm	
Upper Frequency Limit	39,000 Hz	39,000 Hz	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[3]
Cross Talk(between x and y axis)	± 3 %	± 3 %	
Cross Talk(between (x or y axis) and z axis)	± 5 %	± 5 %	
<b>Environmental</b>			
Temperature Range	-100 to +350 °F	-73 to +177 °C	
<b>Electrical</b>			
Capacitance(all channels)	70 pF	70 pF	[1]
Insulation Resistance(all channels)	≥ 10 <sup>12</sup> Ohm	≥ 10 <sup>12</sup> Ohm	
Output Polarity(in direction of markings)	Negative	Negative	
<b>Physical</b>			
Preload	≤ 40,000 lb	≤ 178 kN	[4]
Stiffness(z axis)	38.8 lb/μin	6.8 kN/μm	[1]
Stiffness(x or y axis)	11.4 lb/μin	2.0 kN/μm	[1]
Size (Height x Length x Width x Bolt Diameter x ID x Sensing Surface)	0.790 in x 2.25 in x 2.25 in x 1 in x 1.023 in x 1.800 in	20.07 mm x 57.1 mm x 57.1 mm x 25 mm x 25.98 mm x 45.72 mm	
Weight	9.88 oz	280 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Electrical Connector(Quantity, 3)	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.

M - Metric Mount  
Supplied Accessory : Model M081A71 Mounting Stud (1) replaces Model 081A71

W - Water Resistant Cable  
Electrical Connection Position Side      Side

**NOTES:**

[1]Typical.  
[2]Sensitivites are for listed preload. Sensitivites may vary ±5% depending on preload used.  
[3]Zero-based, least-squares, straight line method.  
[4]Preload should be at least 10 times the X and Y operating range used.

**SUPPLIED ACCESSORIES:**

Model 081A71 Mounting Stud (1)  
Model 082B06 Anti-Friction Washer (1)  
Model 083A11 Pilot Bushing (1)

Entered: LK	Engineer: BAM	Sales: RWM	Approved: BAM	Spec Number:
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*All specifications are at room temperature unless otherwise specified.  
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