

Model Number
260A13

3-COMPONENT CHARGE OUTPUT FORCE SENSOR

Revision: N
ECN #: 23150

Performance	ENGLISH	SI	
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 N-m	
Maximum Moment (x or y axis)	325 ft-lb	440.7 N-m	
Upper Frequency Limit	39 kHz	39 kHz	
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 %	
Environmental			
Temperature Range	-100 to +350 °F	-73 to +177 °C	
Electrical			
Capacitance (all channels)	70 pF	70 pF	[1]
Insulation Resistance (all channels)	≥ 10 ¹² ohm	≥ 10 ¹² ohm	
Output Polarity (in direction of markings)	Negative	Negative	
Physical			
Preload	≤ 40,000 lb	≤ 178 kN	[4]
Stiffness (z axis)	40 lb/μin	7 kN/μm	[1]
Stiffness (x or y axis)	15 lb/μin	2.6 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	

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 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: BLS	Engineer: mgk	Sales: jgm	Approved: OMB	Spec Number:
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