Model Number 260A03	3-COMPONENT ICP® FORCE SENSOR	Revision: T ECN #: 53868

Performance	ENGLISH	SI	
Sensitivity(± 20 %)(Z Axis)	0.25 mV/lb	0.06 mV/N	[1][2]
Sensitivity(± 20 %)(X or Y Axis)	1.25 mV/lb	0.28 mV/N	[1][2]
Measurement Range(Z Axis)	10,000 lb	44.48 kN	
Measurement Range(X or Y Axis)	4,000 lb	17.79 kN	
Maximum Force(Z Axis)	11,000 lb	48.93 kN	
Maximum Force(X or Y Axis)	4,400 lb	19.57 kN	
Maximum Moment(Z Axis)	240 ft-lb	325.4 Nm	
Maximum Moment(X or Y Axis)	325 ft-lb	440.6 Nm	
Broadband Resolution(Z Axis)	0.05 lb-rms	0.222 N-rms	[3]
Broadband Resolution(X or Y axis)	0.01 lb-rms	0.044 N-rms	[3]
Upper Frequency Limit	39,000 Hz	39,000 Hz	
Low Frequency Response(- 5 %)(Z-Axis)	0.01 Hz	0.01 Hz	
Low Frequency Response(- 5 %)(X or Y Axis)	0.001 Hz	0.001 Hz	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Cross Talk(between X and Y Axis)	± 3 %	± 3 %	
Cross Talk(between (X or Y Axis) and Z Axis)	± 5 %	± 5 %	
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Electrical			
Full Scale Output(Z Direction)	± 2.5 VDC	± 2.5 VDC	
Full Scale Output(X and Y Direction)	± 5 VDC	± 5 VDC	
Discharge Time Constant(Z Axis)	≥ 50 sec	≥ 50 sec	
Discharge Time Constant(X or Y Axis)	≥ 500 sec	≥ 500 sec	
Excitation Voltage(all channels)	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation(all channels)	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Spectral Noise(1 Hz)(X & Y)	0.003 lb/√Hz	0.0133 N/√Hz	
Spectral Noise(10 Hz)(X & Y)	0.001 lb/√Hz	0.00445 N/√Hz	
Spectral Noise(100 Hz)(X & Y)	0.0004 lb/√Hz	0.00178 N/√Hz	
Spectral Noise(1,000 Hz)(X & Y)	0.0001 lb/√Hz	0.00044 N/√Hz	
Spectral Noise(1 Hz)(Z)	0.02 lb/√Hz	0.089 N/√Hz	
Spectral Noise(10 Hz)(Z)	0.005 lb/√Hz	0.0222 N/√Hz	
Spectral Noise(100 Hz)(Z)	0.002 lb/√Hz	0.0089 N/√Hz	
Spectral Noise(1,000 Hz)(Z)	0.0005 lb/√Hz	0.00222 N/√Hz	
Output Polarity	Positive	Positive	
Physical			
Preload	40,000 lb	178 kN	[5]
Stiffness(Z Axis)	38.8 lb/µin	6.8 kN/µm	[3]
Stiffness(X or Y Axis)	11.4 lb/µin	2.0 kN/µm	[3]
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	9.56 oz	271 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Electrical Connector	4-Pin	4-Pin	
Electrical Connection Position	Side	Side	

CE

UK CA [6]

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.

W - Water Resistant Cable

Electrical Connection Position	Side	Side

NOTES:

[1]Sensitivites are for listed preload. Sensitivites may vary ±5% depending on preload used.
[2]Sensitivities are dependent upon supplied bolt.
[3]Typical.
[4]Zero-based, least-squares, straight line method.
[5]Preload should be at least 10 times the X and Y operating range used.
[6]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 081A71 Mounting Stud (1)
Model 082B06 Anti-Friction Washer (1)
Model 083A11 Pilot Bushing (1)
Model M081A71 Mounting Stud (1)

Entered: ND	Engineer: EB	Sales: BS	Approved: RPF	Spec Number:
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