Model Number	3-COMPONENT ICP® FORCE SENSOR	Revision: D
260A02		ECN #: 27553

Performance	ENGLISH	SI	
Sensitivity(± 20 %)(z axis)	2.5 mV/lb	0.56 mV/N	[1][2]
Sensitivity(± 20 %)(x or y axis)	5 mV/lb	1.12 mV/N	[1][2]
Measurement Range(z axis)	1000 lb	4.45 kN	
Measurement Range(x or y axis)	1000 lb	4.45 kN	
Maximum Force(z axis)	1320 lb	5.87 kN	
Maximum Force(x or y axis)	1000 lb	4.45 kN	
Maximum Moment(z axis)	40 ft-lb	54.23 N-m	
Maximum Moment(x or y axis)	70 ft-lb	94.91 N-m	
Broadband Resolution(z axis)	0.006 lb-rms	0.027 N-rms	[3]
Broadband Resolution(x or y axis)	0.006 lb-rms	0.027 N-rms	[3]
Upper Frequency Limit	90 kHz	90 kHz	
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	
Output Polarity	Positive	Positive	
Physical			
Preload	10,000 lb	44.48 kN	[5]
Stiffness(z axis)	19 lb/µin	3.3 kN/µm	[3]
Stiffness(x or y axis)	6 lb/µin	1 kN/µm	[3]
Size (Height x Length x Width x Bolt Diameter x ID x Sensing Surface)	0.390 in x 1.35 in x 1.25 in x 0.512 in x 0.512 in x 0.920 in	9.90 mm x 34.3 mm x 31.8 mm x 13 mm x 13 mm x 23.37 mm	
Weight	1.59 oz	45 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Electrical Connector	4-Pin	4-Pin	
Electrical Connection Position	Side	Side	

CE [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.

M - Metric Mount
Supplied Accessory : Model M081A74 Mounting Stud (1) replaces Model 081A74

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 081A74 Pre-load bolt (for Models 260A02, 260A12, and 260A32) (1)
Model 082M12 Anti-friction washer (for Models 260A02, 260A12, and 260A32) (1)
Model 083A13 Pilot bushing (for Models 260A02, 260A12, and 260A32) (1)

Entered: BLS	Engineer: DNB	Sales: RWM	Approved: EF	Spec Number:
Date: 10/23/07	Date: 10/22/07	Date: 10/22/07	Date: 10/22/07	12719

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