

Model Number 261A02	3-COMPONENT ICP® FORCE SENSOR				Revision: B ECN #: 33704
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 20 %)(z axis)	2.5 mV/lb	0.56 mV/N	[1]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Sensitivity(± 20 %)(x or y axis)	5 mV/lb	1.12 mV/N	[1]	M - Metric Mount	
Measurement Range(z axis)	1000 lb	4.45 kN		W - Water Resistant Cable	
Measurement Range(x or y axis)	1000 lb	4.45 kN		Electrical Connection Position	
Maximum Force(z axis)	1320 lb	5.87 kN		Side	Side
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(x or y axis)	0.006 lb-rms	0.027 N-rms	[2]		
Broadband Resolution(x or y axis)	0.006 lb-rms	0.027 N-rms	[2]		
Upper Frequency Limit	10 kHz	10 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	[3]		
Cross Talk(between x and y axis)	± 3 %	± 3 %			
Cross Talk(between (x or y axis) and z axis)	± 5 %	± 5 %			
Environmental				NOTES:	
Temperature Range	-65 to +250 °F	-54 to +121 °C		[1] Sensitivities are for listed preload. Sensitivities may vary ±5% depending on preload used.	
Electrical				[2] Typical.	
Full Scale Output(Z Direction)	± 2.5 VDC	± 2.5 VDC		[3] Zero-based, least-squares, straight line method.	
Full Scale Output(X and Y Direction)	± 5 VDC	± 5 VDC		[4] See PCB Declaration of Conformance PS023 for details.	
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					
Stiffness(z axis)	19 lb/μin	3.3 kN/μm	[2]		
Stiffness(x or y axis)	6 lb/μin	1 kN/μm	[2]		
Weight	34.40 oz	975 gm			
Housing Material	Stainless Steel	Stainless Steel			
Sealing	Hermetic	Hermetic			
Electrical Connector	4-Pin	4-Pin			
Electrical Connection Position	Side	Side			
				Entered: DMW	Engineer: MJK
[4]				Sales: KWW	Approved: EB
				Date: 8/17/10	Spec Number: 29368
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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. ICP® is a registered trademark of PCB Group, Inc.				 FORCE / TORQUE DIVISION 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-684-8877 E-Mail: force@pcb.com	