



Model Number 261M09		3-COMPONENT ICP® FORCE SENSOR		Revision: C ECN #: 43872			
Performance		ENGLISH	SI				
Sensitivity(± 20 %)(z axis)	100 mV/lb	22.5 mV/N	[1][2]	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 W - Water Resistant Cable			
Sensitivity(± 20 %)(x or y axis)	500 mV/lb	112 mV/N	[1][2]				
Measurement Range(z axis)	25 lb	0.111 kN					
Measurement Range(x or y axis)	10 lb	0.044 kN					
Maximum Force	300 lb	1.334 kN					
Maximum Force(x or y axis)	60 lb	0.267 kN					
Maximum Moment(z axis)	14 ft-lb	18.98 Nm					
Maximum Moment(x or y axis)	13 ft-lb	17.63 Nm					
Broadband Resolution(z axis)	0.0003 lb-rms	0.0133 N-rms	[3]				
Broadband Resolution(x or y axis)	0.00004 lb-rms	0.0002 N-rms	[3]				
Upper Frequency Limit	10,000 Hz	10,000 Hz					
Low Frequency Response(-5 %)(z-axis)	0.01 Hz	0.01 Hz					
Low Frequency Response(-5 %)(x or y axis)	0.01 Hz	0.01 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				NOTES: [1]Sensitivities are for listed preload. Sensitivities 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]See PCB Declaration of Conformance PS023 for details.			
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)	≥ 50 sec	≥ 50 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					
Electrical Isolation(Base)	≥ 10 ⁸	≥ 10 ⁸					
Physical							
Stiffness(z axis)	10 lb/μin	1.75 kN/μm	[3]				
Stiffness(x or y axis)	4 lb/μin	0.7 kN/μm	[3]				
Size (Height x Length x Width)	1.652 in x 1.655 in x 1.655 in 41.96 mm x 42.04 mm x 42.04 mm						
Weight	13.60 oz	386 gm					
Housing Material	Stainless Steel	Stainless Steel					
Sealing	Hermetic	Hermetic					
Electrical Connector	4-Pin	4-Pin					
Electrical Connection Position	Side	Side					
 [5]		Entered: AP		Engineer: BAM	Sales: RWM	Approved: BAM	Spec Number:
		Date: 3/5/2015		Date: 3/5/2015	Date: 3/5/2015	Date: 3/5/2015	39306
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.				Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com		3425 Walden Avenue, Depew, NY 14043	