

Model Number 261A03	3-COMPONENT ICP® FORCE SENSOR			Revision C ECN #: 33704
Performance	ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±20 %) (z axis)	0.25 mV/lb	0.06 mV/N	[1]	M - Metric Mount
Sensitivity (±20 %) (x or y axis)	1.25 mV/lb	0.28 mV/N	[1]	W - Water Resistant Cable
Measurement Range (z axis)	10000 lb	44.48 kN		Electrical Connection Position
Measurement Range (x or y axis)	4000 lb	17.79 kN		Side
Maximum Force (z axis)	11000 lb	48.93 kN		Side
Maximum Force (x or y axis)	4400 lb	19.57 kN		
Maximum Moment (z axis)	240 ft-lb	325.4 Nm		
Maximum Moment (x or y axis)	325 ft-lb	440.7 Nm		
Broadband Resolution (x or y axis)	0.05 lb-rms	0.222 N-rms	[2]	Notes
Broadband Resolution (x or y axis)	0.01 lb-rms	0.04 N-rms	[2]	[1] Sensitivites are for listed preload. Sensitivites may vary ±5% depending on preload used.
Upper Frequency Limit	10 kHz	10 kHz		[2] Typical.
Low Frequency Response (-5 %) (z-axis)	0.01 Hz	0.01 Hz		[3] Zero-based, least-squares, straight line method.
Low Frequency Response (-5 %) (x or y axis)	0.001 Hz	0.001 Hz		[4] See PCB Declaration of Conformance PS023 for details.
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	-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	0.0134 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 (1000 Hz) (X & Y)	0.0001 lb/√Hz	0.000445 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 (1000 Hz) (Z)	0.0005 lb/√Hz	0.00222 N/√Hz		
Output Polarity	Positive	Positive		
Physical				
Stiffness (z axis)	40 lb/μin	7 kN/μm	[2]	
Stiffness (x or y axis)	15 lb/μin	2.6 kN/μm	[2]	
Size (Height x Length x Width)	3.54 in x 3.15 in x 3.15 in	89.9 mm x 80.0 mm x 80.0 mm		
Weight	96.25 oz	2994 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	Sales: KWW	Approved: ECB	Spec Number:
Date: 08/17/2010	Date: 08/17/2010	Date: 08/17/2010	Date: 08/17/2010	28787



3425 Walden Avenue
 Depew, NY 14043
 UNITED STATES
 Phone: 800-828-8840
 Fax: 716-684-0987
 E-mail: info@pcb.com
 Web site: www.pcb.com



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.