

Model Number 261B12		3-COMPONENT CHARGE OUTPUT FORCE SENSOR			Revision: B ECN #: 55942
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 15 %)(Z Axis)		15 pC/lb	3.37 pC/N	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(± 15 %)(X or Y Axis)		32 pC/lb	7.19 pC/N		
Measurement Range(Z Axis)		1,000 lb	4.45 kN		
Measurement Range(X or Y Axis)		1,000 lb	4.45 kN		
Maximum Force(Z Axis)		1,320 lb	5.87 kN		
Maximum Force(X or Y Axis)		1,100 lb	4.89 kN		
Maximum Moment(Z Axis)		58 ft-lb	78.6 Nm		
Maximum Moment(X or Y Axis)		96 ft-lb	130.2 Nm		
Non-Linearity		≤ 1 % FS	≤ 1 % FS		
Cross Talk(between X and Y Axis)		± 3 %	± 3 %		
Cross Talk(between (X or Y Axis) and Z Axis)		± 5 %	± 5 %		
Environmental					
Temperature Range		-100 to +350 °F	-73 to +177 °C		
Electrical					
Capacitance(all channels)		30 pF	30 pF		
Insulation Resistance(all channels)		≥ 10 ¹² Ohm	≥ 10 ¹² Ohm		
Output Polarity(in direction of markings)		Negative	Negative		
Electrical Isolation		≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm		
Physical					
Stiffness(X or Y Axis)		2.9 lb/μin	510 N/μm		
Stiffness(Z Axis)		7.2 lb/μin	1,260 N/μm		
Stiffness(RX or RY)		2.8 E6 lbf*in/radian	3.2 E5 N*m/radian		
Stiffness(RZ)		9.4 E5 lbf*in/radian	1.1 E5 N*m/radian		
Coupled Stiffness(X-RY or Y-RX)		2.5 lbf*in/μin	11 N*m/μm		
Weight		34.40 oz	975 gm		
Housing Material		Stainless Steel	Stainless Steel		
Sealing		Hermetic	Hermetic		
Electrical Connector(Quantity, 3)		10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position		Side	Side		
 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.				NOTES:	
				[1]Zero-based, least-squares, straight line method.	
				[2]Typical.	
				[3]See PCB White Paper WPL_88_1121 for details.	
				[4]See PCB Declaration of Conformance PS158 for details.	
				 Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com	
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				3425 Walden Avenue, Depew, NY 14043	