

Model Number
260M21A

3-COMPONENT ICP® FORCE SENSOR

Revision: NR
ECN #: 56255

Performance	ENGLISH	SI		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.				
W - Water Resistant Cable				
Sensitivity(± 30 %)(Z Axis)	100 mV/lb	22.5 mV/N	[1][2]	
Sensitivity(± 30 %)(X or Y Axis)	500 mV/lb	112 mV/N	[1][2]	
Measurement Range(Z Axis)	25 lb	.111 kN		
Measurement Range(X or Y Axis)	10 lb	.044 kN		
Maximum Force(Z Axis)	300 lb	1.334 kN		
Maximum Force(X or Y Axis)	60 lb	.267 kN		
Maximum Moment(Z Axis)	6 ft-lb	8.1 Nm		
Maximum Moment(X or Y Axis)	9 ft-lb	12.2 Nm		
Broadband Resolution(Z Axis)	0.0003 lb-rms	0.0013 N-rms	[3]	
Broadband Resolution(X or Y Axis)	0.00004 lb-rms	0.0002 N-rms	[3]	
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				
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		
Output Polarity	Positive	Positive		
Electrical Isolation	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm		
Physical				
Preload Torque	56 in-lb	6.3 Nm	[5][6][7]	
Stiffness(X or Y Axis)	2.5 lb/μin	440 N/μm	[3][8]	
Stiffness(Z Axis)	10.0 lb/μin	1,755 N/μm	[3][8]	
Stiffness(RX or RY Axis)	4.1E5 lbf*in/radian	4.6E4 N*m/radian	[3][8]	
Stiffness(RZ Axis)	4.7E5 lbf*in/radian	5.3E4 N*m/radian	[3][8]	
Coupled Stiffness	0.3 lbf*in/μin	1.3 N*m/μm	[3][8]	
Weight	0.937 oz	26.57 gm		
Housing Material	Stainless Steel	Stainless Steel		
Sealing	Hermetic	Hermetic		
Electrical Connector	4-Pin	4-Pin		
Electrical Connection Position	Side	Side		

CE

UK

CA

[9]

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.

Entered: ND

Engineer: EB

Sales: BS

Approved: RPF

Spec Number:

Date: 12/01/2025

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