

Model Number
260A12

FORCE SENSOR, CHARGE OUTPUT, 3-COMPONENT

Revision B
ECN #: 22798

Performance	ENGLISH	SI	
Sensitivity ($\pm 15\%$) (x or y axis)	32 pC/lb	7.19 pC/N	[2]
Sensitivity ($\pm 15\%$) (z axis)	15 pC/lb	3.37 pC/N	[2]
Measurement Range (z axis)	1000 lb	4.45 kN	
Measurement Range (x or y axis)	1000 lb	4.45 kN	
Maximum Force (z axis)	1320 lb	5.87 kN	
Maximum Force (x or y axis)	1000 lb	4.45 kN	
Maximum Moment (z axis)	40 ft-lb	54.23 Nm	
Maximum Moment (x or y axis)	70 ft-lb	94.91 Nm	
Upper Frequency Limit	90 kHz	90 kHz	
Non-Linearity	$\leq 1\%$ FS	$\leq 1\%$ FS	[3]
Cross Talk (between x and y axis)	$\pm 3\%$	$\pm 3\%$	
Cross Talk (between (x or y axis) and z axis)	$\pm 5\%$	$\pm 5\%$	
Environmental			
Temperature Range	-100 to +350 °F	-73 to +177 °C	
Electrical			
Capacitance (all channels)	30 pF	30 pF	[1]
Insulation Resistance (all channels)	$\geq 10^{12}$ Ohm	$\geq 10^{12}$ Ohm	
Output Polarity (in direction of markings)	Negative	Negative	
Physical			
Preload	≤ 10000 lb	≤ 44.48 kN	[4]
Stiffness (z axis)	19 lb/ μ in	3.3 kN/ μ m	[1]
Stiffness (x or y axis)	6 lb/ μ in	1 kN/ μ m	[1]
Size (Height x Length x Width x Bolt Diameter x ID x Sensing Surface)	0.390 in x 1.25 in x 1.25 in x 0.500 in x 0.512 in x 0.920 in	9.90 mm x 31.8 mm x 31.8 mm x 13 mm x 13 mm x 23.37 mm	
Weight	1.5 oz	42.5 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	

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

M - Metric Mount

Supplied Accessory: Model M081A74 Mounting Stud replaces Model 081A74

W - Water Resistant Cable

Electrical Connection Position Side Side

Notes

- [1] Typical.
- [2] Sensitivites are for listed preload. Sensitivites may vary $\pm 5\%$ depending on preload used.
- [3] Zero-based, least-squares, straight line method.
- [4] Preload should be at least 10 times the X and Y operating range used.

Supplied Accessories

- 081A74 Pre-load bolt (for Models 260A02, 260A12, and 260A32) (1)
- 082M12 Anti-friction washer (for Models 260A02, 260A12, and 260A32) (1)
- 083A13 Pilot bushing (for Models 260A02, 260A12, and 260A32) (1)

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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.

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