

3-COMPONENT CHARGE OUTPUT FORCE SENSOR

Performance
Sensitivity ($\pm 15\%$) (z axis)
Sensitivity ($\pm 15\%$) (x or y axis)
Measurement Range (z axis)
Measurement Range (x or y axis)
Maximum Force (z axis)
Maximum Force (x or y axis)
Maximum Moment (z axis)
Maximum Moment (x or y axis)
Upper Frequency Limit
Non-Linearity
Cross Talk (between x and y axis)
Cross Talk (between (x or y axis) and z axis)

Environmental
Temperature Range

Electrical
Capacitance (all channels)
Insulation Resistance (all channels)
Output Polarity (in direction of markings)

Physical
Preload
Stiffness (z axis)
Stiffness (x or y axis)
Size (Height x Length x Width x Bolt Diameter x ID x Sensing Surface)
Weight
Housing Material
Sealing
Electrical Connector (Quantity, 3)
Electrical Connection Position

ENGLISH	SI
15 pC/lb	3.37 pC/N
32 pC/lb	7.19 pC/N
1000 lb	4.45 kN
1000 lb	4.45 kN
1320 lb	5.87 kN
1000 lb	4.45 kN
40 ft-lb	54.23 N-m
70 ft-lb	94.91 N-m
90 kHz	90 kHz
$\leq 1\%$ FS	$\leq 1\%$ FS
$\pm 3\%$	$\pm 3\%$
$\pm 5\%$	$\pm 5\%$
-100 to +350 °F	-73 to +177 °C
30 pF	30 pF
$\geq 10^9$ ohm	$\geq 10^9$ ohm
Negative	Negative
$\leq 10,000$ lb	≤ 44.48 kN
19 lb/ μ in	3.3 kN/ μ m
6 lb/ μ in	1 kN/ μ m
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 23.37 mm
1.5 oz	42.5 gm
Stainless Steel	Stainless Steel
Hermetic	Hermetic
10-32 Coaxial Jack	10-32 Coaxial Jack
Side	Side

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
Supplied Accessory: Model M081A74 Mounting Stud (1) replaces Model 081A74
W - Water Resistant Cable
Electrical Connection Position: Side

NOTES:
[1] Typical.
[2] Sensitivities are for listed preload. Sensitivities 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:
Model 081A74 Pre-load bolt (for Models 260A02, 260A12, and 260A32) (1)
Model 082M12 Anti-friction washer (for Models 260A02, 260A12, and 260A32) (1)
Model 083A13 Pilot bushing (for Models 260A02, 260A12, and 260A32) (1)

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PCB PIEZOTRONICS™
FORCE / TORQUE DIVISION
3425 Walden Avenue, Depew, NY 14043
Phone: 716-684-0001
Fax: 716-684-8877
E-Mail: force@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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