

Model Number
237B

CHARGE OUTPUT FORCE SENSOR

Revision: F
ECN #: 33650

Performance

Sensitivity(± 15 %)
Measurement Range(Compression)
(Tension)
Maximum Static Force(Compression)
(Tension)
Upper Frequency Limit
Non-Linearity

ENGLISH

17 pC/lb
50,000 lb
30,000 lb
65,000 lb
37,500 lb
4 kHz
≤ 1 % FS

SI

3821.6 pC/kN
222.40 kN
133.44 kN
289 kN
166.80 kN
4 kHz
≤ 1 % FS

Temperature Range
Temperature Coefficient of Sensitivity

-100 to +400 °F
≤ 0.03 %/°F

-73 to 204.4 °C
≤ 0.054 %/°C

Electrical

Capacitance
Insulation Resistance
Output Polarity(Compression)
(Tension)

130 pF
≥ 10¹² ohm
Negative
Positive

130 pF
≥ 10¹² ohm
Negative
Positive

Physical

Stiffness
Size (Diameter x Height)
Weight
Housing Material
Sealing
Electrical Connector
Electrical Connection Position
Mating Connector(Required)
Mounting Thread

29 lb/µin
2.95 in x 4.25 in
83 oz
Stainless Steel
Hermetic
10-32 Coaxial Jack
Side
10-32 Coaxial Plug
1 1/4 - 12 Female

5 kN/µm
74.93 mm x 107.95 mm
2353 gm
Stainless Steel
Hermetic
10-32 Coaxial Jack
Side
10-32 Coaxial Plug
1 1/4 - 12 Female

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.

J - Ground Isolated
M - Metric Mount
Mounting Thread M30 x 2.00 Female M30 x 2.00 Female
P - Positive Output Polarity
Output Polarity(Compression) Positive Positive
W - Water Resistant Cable
Electrical Connector Integral Cable
Electrical Connection Position Side Integral Cable Side

NOTES:

[1] Zero-based, least-squares, straight line method.

Entered: <i>Let</i>	Engineer: <i>MSL</i>	Sales: <i>CWW</i>	Approved: <i>DBS</i>	Spec Number:
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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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