

Model Number
SEN040F

TRIAxIAL ICP® ACCELEROMETER

Revision: D

Performance

Voltage Sensitivity ($\pm 20\%$)
Measurement Range
Frequency Range (-5%)
Resonant Frequency
Electrical Filter Roll-off
Electrical Filter Corner Frequency
Broadband Resolution (1 to 10000 Hz)
Non-Linearity
Transverse Sensitivity

ENGLISH

1.0 mV/g
 ± 5000 g pk
2 to 4000 Hz
 ≥ 55 kHz
6 dB/octave
20 kHz
0.03 g rms
 $\leq 2.5\%$
 $\leq 5\%$

SI

0.1 mV/(m/s²)
 ± 49050 m/s² pk
2 to 4000 Hz
 ≥ 5 kHz
6 dB/octave
20 kHz
0.29 m/s² rms
 $\leq 2.5\%$
 $\leq 5\%$

Notes

[2]
[1]
[1]
[1]
[3]

Environmental

Overload Limit (Shock)
Temperature Range (Operating)
Temperature Response

± 10000 g pk
-65 to +250 °F
See Graph

± 98100 m/s² pk
-54 to +121 °C
See Graph

Electrical

Excitation Voltage
Constant Current Excitation
Output Impedance
Output Bias Voltage
Discharge Time Constant
Settling Time (within 10 % of bias)
Spectral Noise (1 Hz)
Spectral Noise (10 Hz)
Spectral Noise (100 Hz)
Spectral Noise (1 kHz)

18 to 30 VDC
2 to 20 mA
 ≤ 200 Ohms
7 to 12 VDC
1.5 to 3.0 s
 < 10 s
9000 $\mu\text{g}/\sqrt{\text{Hz}}$
2500 $\mu\text{g}/\sqrt{\text{Hz}}$
800 $\mu\text{g}/\sqrt{\text{Hz}}$
250 $\mu\text{g}/\sqrt{\text{Hz}}$

18 to 30 VDC
2 to 20 mA
 ≤ 200 Ohms
7 to 12 VDC
1.5 to 3.0 s
 < 10 s
88290 $(\mu\text{m}/\text{s}^2)/\sqrt{\text{Hz}}$
24525 $(\mu\text{m}/\text{s}^2)/\sqrt{\text{Hz}}$
7848 $(\mu\text{m}/\text{s}^2)/\sqrt{\text{Hz}}$
2453 $(\mu\text{m}/\text{s}^2)/\sqrt{\text{Hz}}$

[1]
[1]
[1]
[1]

Physical

Sensing Element
Sensing Geometry
Housing Material
Sealing
Size (Height x Length x Width)
Weight
Electrical Connector
Electrical Connector Position
Mounting Thread

Ceramic
Shear
Titanium
Hermetic
0.40 x 0.77 x 0.40 in
0.18 oz
 $\frac{1}{4}$ -28 4-Pin
Side
5-40 Female

Ceramic
Shear
Titanium
Hermetic
10.2 x 19.6 x 10.2 mm
5.0 gm
 $\frac{1}{4}$ -28 4-Pin
Side
5-40 Female

[1]

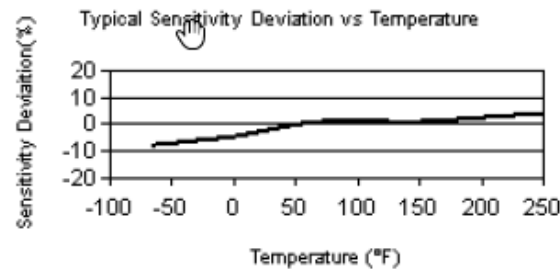


Notes

[1] Typical
[2] All axes filtered to provide -5% between 4000 and 6000 Hz
[3] Zero-based, least-square, straight line method

Supplied Accessories

NIST Traceable Calibration Certificate
Model 080A90 Mounting Stud, 10-32 to 5-40 (1)



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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