

Compact, ultra low-frequency accelerometer

731-207

SPECIFICATIONS

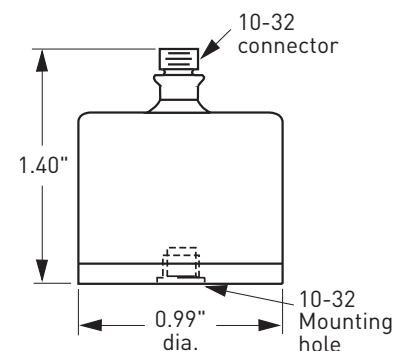
Sensitivity, $\pm 10\%$, 25°C	10 V/g
Acceleration range	0.5 g peak
Amplitude nonlinearity	1%
Frequency response, nominal:	
$\pm 5\%$	0.6 - 650 Hz
$\pm 10\%$	0.5 - 850 Hz
± 3 dB	0.2 - 1,300 Hz
Resonance frequency, mounted, nominal	2.4 kHz
Transverse sensitivity, max	1% of axial
Temperature response:	
0°C	-14%
+80°C	+14%
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	2 μ g
Spectral 2 Hz	0.28 μ g/ $\sqrt{\text{Hz}}$
10 Hz	0.09 μ g/ $\sqrt{\text{Hz}}$
100 Hz	0.03 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	500 Ω
Bias output voltage, nominal	10 VDC
Grounding	case grounded
Temperature range	0° to +80°C
Vibration limit	50 g peak
Shock limit	250 g peak
Electromagnetic sensitivity at 60 Hz	20 μ g/gauss
Sealing	hermetic
Base strain sensitivity	0.0005 g/ μ strain
Weight	60 grams
Case material	316L stainless steel
Mounting	10-32 UNF
Output connector	10-32 coaxial
Recommended cabling	J93

Accessories supplied: SF1 mounting stud; calibration data (level 3)



Key features

- Ultra high sensitivity
- Ultra low noise
- Compact construction
- Ideal for seismic applications
- Manufactured in ISO 9001 facility



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.