Senther 730A-1000

Miniature tri-axial IEPE accelerometer

Dynamic

Sensitivity, ±10%, 25°C.....5 mV/g
Acceleration range .....1000 g peak
Amplitude nonlinearity.....1%
Frequency response:
± 5%.....2 - 4,000 Hz
±1dB.....1- 10,000 Hz
± 3 dB.....0.5 - 12,000 Hz
Resonance frequency.....40 kHz
Transverse sensitivity, max.....5% of axial
Temperature response:
–50°C.....–10%
+120°C.....+10%

Electrical

Power requirement: voltage source .....18 - 30 VDC
current regulating diode .....2 - 10 mA
Electrical noise, Broadband Spectral(g):
1 Hz to 10 kHz.....1 mg
Output impedance, max.....100Ω
Bias output voltage.....10 VDC
Grounding.....Case grounded

Environmental

Temperature range.....–50 to 120°C
Vibration limit.....1000 g peak
Shock limit.....5,000 g peak
Electromagnetic sensitivity, equiv g, max .....90 µg/gauss
Sealing .....Hermetic
Base strain sensitivity, max.....0.0002 g/µstrain

Physical

Sensing element design.....PZT ceramic/shear
Weight.....4 grams
Case material.....Titanium
Output connector.....4 pin

Accessories

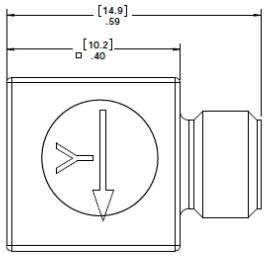
Mounting stud: M3(-M)
Mating cable with BNCx3 output
Calibration certificate
Note: Frequency response limits spectral and noise values are typical

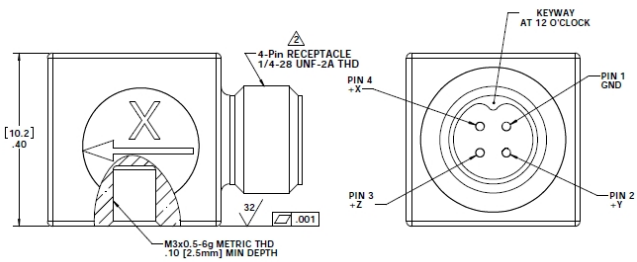
Features

- Tri-axial measurement
- Miniature cube
- Adhesive or stud mounting
- Hermetic seal
- Annular shear mode
- Wide frequency response
- Shock duration

Application

- Vibration monitoring
- Shock testing
- Satellite testing
- Modal analysis
- Aircraft testing





Ordering Information

730A-1000-M

- Mounting stud
- Range in g
- Output type
- Model