Senther 730A-5000

Miniature tri-axial IEPE accelerometer

Dynamic

Sensitivity, ±10%, 25°C..... 1 mV/g
Acceleration range ..... 5000 g peak
Amplitude nonlinearity.....1%
Frequency response:
± 10%..... 1 - 9000 Hz
± 3 dB..... 0.5 - 11000 Hz
Resonant frequency..... 42 kHz
Transverse sensitivity, max..... 5% of axial
Temperature response:
–55°C..... –10%
+125°C..... +10%

Electrical

Power requirement: voltage source ..... 18 - 30 VDC
current regulating diode ……..... 2 - 10 mA
Electrical noise, Broadband Spectral (g):
2 Hz to 20 kHz..... 15 mg
Output impedance, max..... 100 Ω
Bias output voltage..... 8 - 12 VDC
Grounding..... Case grounded

Environmental

Temperature range..... –55 to 125°C
Vibration limit..... 5000 g peak
Shock limit..... 5000 g peak
Electromagnetic sensitivity, equiv g, max ..... 90 µg/gauss
Sealing ..... Hermetic
Base strain sensitivity, max..... 0.0002 g/µstrain

Physical

Sensing element design..... Ceramic/shear
Weight..... 4.3 grams
Case material..... Titanium
Output connector..... 4 pin

Accessories

Mounting stud: M3
Mating cable with BNCx3 output
Calibration certificate

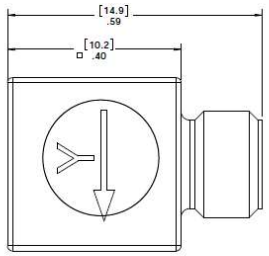
Note: Frequency response limits spectral and noise values are typical

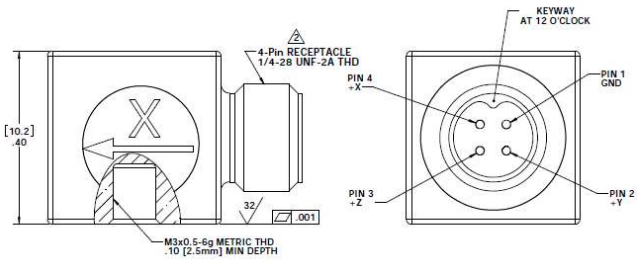
Features

- 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-5000

- Range in g
- Output type
- Model