Senther 730A-50

Miniature tri-axial IEPE accelerometer

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

Dynamic

Sensitivity, ±10%, 25°C	100 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity	1%
Frequency response:	
± 5%	10 - 4,000 Hz
±1dB	7- 10,000 Hz
± 3 dB	4 - 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	500µg
Output impedance, max	100Ω
Bias output voltage	10 VDC
Grounding	Case grounded

Environmental

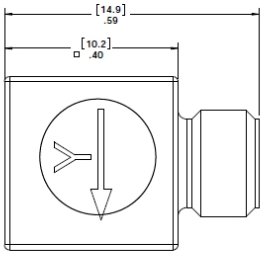
Temperature range	–50 to 120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv g, max	90 µg/gauss
Sealing	Hermetic
Base strain sensitivity, max	0.0002 g/µstrain

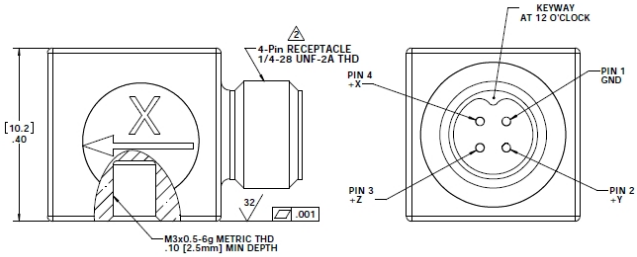
Physical

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





Ordering Information

730A-50-M

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