Senther

512A-500

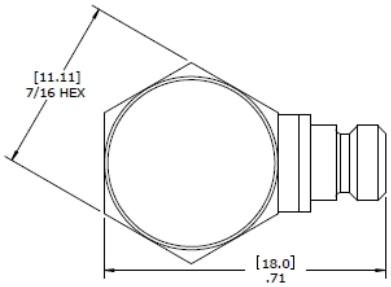
Single axial IEPE accelerometer

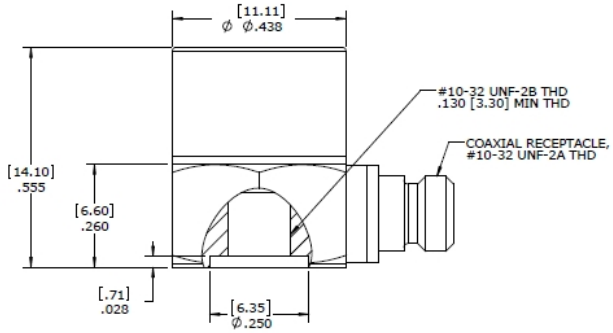
Features

- Miniature Size
- Adhesive or stud mounting
- Hermetic seal
- Annular shear mode
- Wide temperature range
- Wide frequency response

Application

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





Dynamic

Sensitivity, ±10%, 25°C	10 mV/g
Acceleration range	500 g peak
Amplitude nonlinearity	1%
Frequency response:	
± 5%	1 - 7,000 Hz
±1dB	1 - 10,000 Hz
± 3 dB	0.5 - 15,000 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 125°C
Vibration limit	1000 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 µg/gauss
Sealing	Hermetic
Base strain sensitivity, max	0.0002 g/µstrain

Physical

Sensing element design	PZT ceramic/shear
Weight	7 grams
Case material	Stainless Steel
Output connector	10-32

Accessories

Mounting stud:10-32(-E)
Mating cable with BNC output
Calibration certificate
Note: Frequency response limits spectral and noise values are typical

Ordering Information

512A-500-E

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