Senther

331A-50-LF

Tri-axial low frequency accelerometer

Dynamic

Sensitivity, ±10%, 25°C..... 100 mV/g
Acceleration range ..... 50 g peak
Amplitude nonlinearity..... 1%
Frequency response:
± 5%..... 0.3 - 4,000 Hz
±3 dB..... 0.1 - 6,000 Hz
Resonance frequency..... 24 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):
2.5 Hz to 25 kHz..... 100 µg
10 Hz..... 2 µg/√Hz
100 Hz..... 1 µg/√Hz
1000 Hz..... 0.5 µg/√Hz
Output impedance, max..... 100 Ω
Bias output voltage..... 12 VDC
Grounding..... case isolated, Internally shielded

Features

- Low frequency response
- Rugged design
- High sensitivity
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection
- EMI / RFI shielded

Environmental

Temperature range..... –50 to 120°C
Vibration limit..... 100 g peak
Shock limit..... 2,000 g peak
Electromagnetic sensitivity, equiv g, max ..... 70 µg/gauss
Sealing ..... Hermetic
Base strain sensitivity, max..... 0.0002 g/µstrain

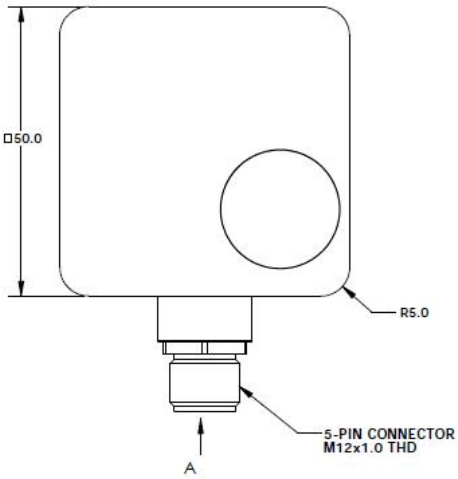
Physical

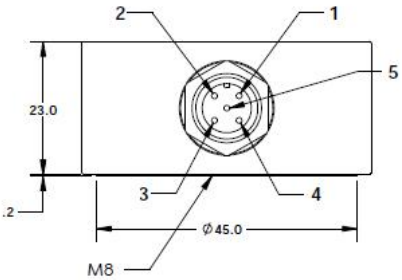
Sensing element design..... PZT ceramic/shear
Weight..... 400 grams
Case material..... 316 stainless steel
Mounting..... M8 stud
Output connector..... 5 pin, M12

Accessories

M8 to M8 mounting stud (or customers specified)
Calibration certificate
Mating cable optional, Model number as (Below LL is cable length in meter):
19A-LL (M12 to Pigtail)
19A-LL-B (M12 to 3x BNC)

Note: Frequency response limits spectral and noise values are typical





A向

连接器针功能表:
针2 = 加速计X信号+
针3 = 加速计Y信号+
针4 = 加速计Z信号+
针1 = 加速计XYZ共-

配套线缆定义

线缆颜色:
蓝色
灰色
棕色
黑色

Ordering Information

331A-50-LF

- Low frequency option
- Range in g
- Output type
- Model