Senther

331A-5-LF

Tri-axial low frequency accelerometer

Features

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

Dynamic

Sensitivity, ±10%, 25°C	1000 mV/g
Acceleration range	5 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

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

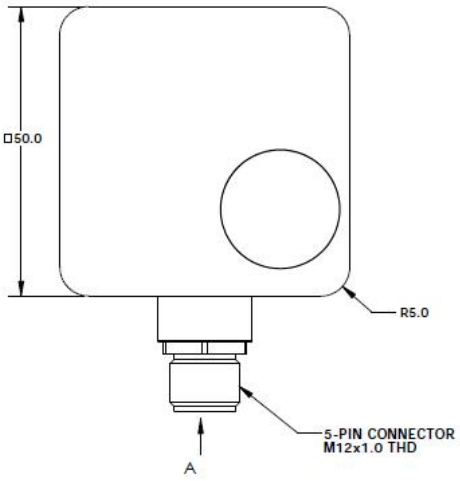
Physical

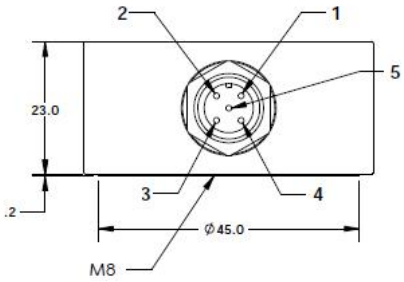
Sensing element design	PZT ceramic/shear
Weight	400 grams
Case material	316 stainless steel
Mounting	M8 stud
Output connector	5 pin, M12

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-5-LF

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