

Lightning protection accelerometer



Features

- Rugged design
- Corrosion resistant
- Hermetic seal
- Case isolated
- Lightning protection
- Reverse wiring protection

Dynamic

Sensitivity, $\pm 10\%$, 25°C.....	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
± 5%.....	2 - 7,000 Hz
±1dB.....	1 - 10,000 Hz
± 3 dB.....	0.4 - 14,000 Hz
Resonance frequency.....	32 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.....	400 μ g
10 Hz.....	8 μ g/ $\sqrt{\text{Hz}}$
100 Hz.....	4 μ g/ $\sqrt{\text{Hz}}$
1000 Hz.....	2 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max.....	100 Ω
Bias output voltage.....	12 VDC
Grounding.....	case isolated, Internally shielded

Environmental

Temperature range.....	-50 to 120°C
Vibration limit.....	500 g peak
Shock limit.....	5,000 g peak
Dielectric Withstand Voltage.....	2500V (AC)
Electromagnetic sensitivity, equiv g, max	70 μ g/gauss
Sealing	Hermetic
Base strain sensitivity, max.....	0.0002 μ strain

Physical

Sensing element design.....	PZT ceramic/shear
Weight.....	80 grams
Case material.....	304L stainless steel
Mounting.....	1/4 - 28 UNF
Output connector.....	2 pin, MIL-C-5015
Mating connector.....	R6 type
Recommended cabling.....	J10 / J9T2A

Accessories

- 1/4-28 to 1/4-28 mounting stud (or customers specified)
- Calibration certificate

Ordering Information

