

Slow turning machinery accelerometer



Features

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

Dynamic

Sensitivity, $\pm 10\%$, 25°C.....	500 mV/g
Acceleration range	10 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 5\%$	0.3 - 4,000 Hz
± 1 dB.....	0.2 - 5,000 Hz
± 3 dB.....	0.1 - 6,000 Hz
Resonance frequency.....	20 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.....	200 μ g
10 Hz.....	4 μ g/ $\sqrt{\text{Hz}}$
100 Hz.....	2 μ g/ $\sqrt{\text{Hz}}$
1000 Hz.....	1 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.....	100 g peak
Shock limit.....	2,000 g peak
Electromagnetic sensitivity, equiv g, max	70 μ g/gauss
Sealing	Hermetic
Base strain sensitivity, max.....	0.0002 g/ μ strain

Physical

Sensing element design.....	PZT ceramic/shear
Weight.....	135 grams
Case material.....	304L stainless steel
Mounting.....	M6 mounting screw
Output connector.....	2 pin, MIL-C-5015
Mating connector.....	R6 type
Recommended cabling.....	16A

Accessories

M6 mounting screw (or customers specified)
 Calibration certificate
 Note: Frequency response limits spectral and noise values are typical

Ordering Information

340A-10-LF

