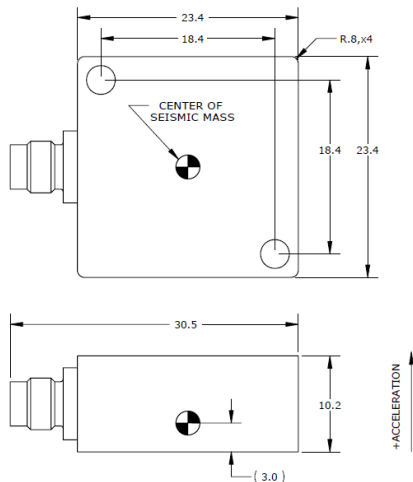


Variable capacitance accelerometer



Features

- DC response
- 2 to 200 g full scale
- Motion, low frequency, tilt
- 6K g shock survivability
- Temperature compensation



Dynamic

FSO, $\pm 10\%$, 25°C.....	± 2000 mV
Acceleration range(g)	2/5/10/30/50/100/200
Amplitude nonlinearity.....	1%
Frequency response(+/-3dB):	
2g.....	0 - 800 Hz
5g.....	0 - 1700 Hz
10g.....	0 - 2400 Hz
30g.....	0 - 3000 Hz
50g.....	0 - 3000 Hz
100g.....	0 - 3000 Hz
200g.....	0 - 3000 Hz
Zero.....	± 20 mV
Transverse sensitivity, max.....	3% of axial
Temperature response, max:	
Zero shift	$\pm 0.02\%$ SFO/°C
Scale shift.....	$\pm 0.025\%$ /°C

Electrical

Power requirement:	5 - 30 VDC
Current consumption	<3 mA
Electrical noise, Broadband Spectral:	
0 Hz to 4 kHz.....	27 μ V/ $\sqrt{\text{Hz}}$
Output load.....	Min. 50 Kohm
Bias output voltage.....	2.5 VDC
Grounding.....	Internally shielded

Environmental

Temperature range.....	-55 to 125°C
Vibration limit.....	100 g peak
Shock limit.....	6,000 g peak
Resolution.....	10 ⁻⁴ SFO
Sealing	Hermetic
Base strain sensitivity, max.....	0.0002 g/ μ strain

Physical

Sensing element.....	MEMS(VC)
Weight.....	18 grams
Case material.....	304L stainless steel
Mounting.....	M3 Screws
Output connector.....	5 pin connector

Accessories

2x M3 Screws (or customers specified)
 5 Meter mating cable(or customers specified)
 Calibration certificate
 Note: Frequency response limits spectral and noise values are typical

Ordering Information

810B-10	
└─┬─┐	Range in g
└─┬─┐	Connector Output(W/O for Integrated cable)
└─┬─┐	Model