

## Variable capacitance accelerometer



### Features

- DC response
- 2 to 5 g full scale
- Motion, low frequency, tilt
- 2K g shock survivability
- Temperature compensation

### Dynamic

FSO, $\pm 10\%$ , 25°C.....	$\pm 2000$ mV
Acceleration range(g) .....	2/5
Amplitude nonlinearity.....	1%
Frequency response(+/-2dB):	
2g.....	0 - 500 Hz
5g.....	0 - 600 Hz
Zero.....	$\pm 50$ 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 .....	<2 mA
Electrical noise, Broadband Spectral:	
0 Hz to 4 kHz.....	50 $\mu$ V/ $\sqrt$ Hz
Output load.....	Min. 50 Kohm
Bias output voltage.....	2.5 VDC
Grounding.....	Internally shielded

### Environmental

Temperature range.....	-40 to 85°C
Vibration limit.....	100 g peak
Shock limit.....	2,000 g peak
Resolution.....	10 <sup>4</sup> SFO
Sealing .....	Hermetic
Base strain sensitivity, max.....	0.0002 g/ $\mu$ strain

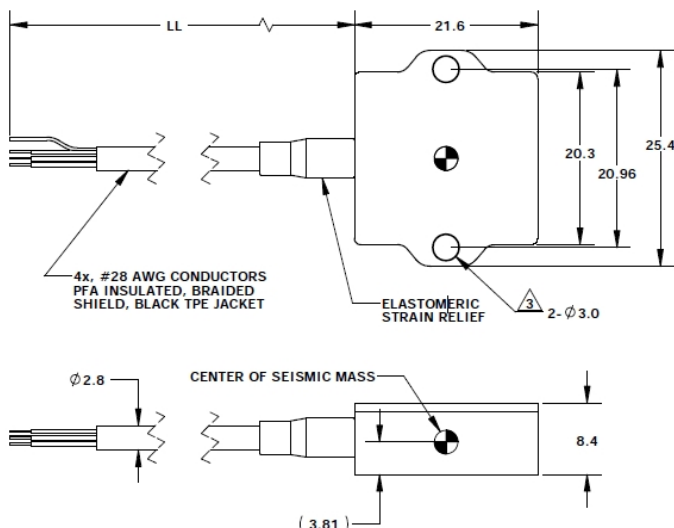
### Physical

Sensing element.....	MEMS(VC)
Weight.....	6 grams
Case material.....	Anodized aluminum
Mounting.....	M3 Screws
Output connector.....	Option

### 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

