

Variable capacitance accelerometer



Dynamic

FSO, $\pm 10\%$, 24°C.....	± 2000 mV
Acceleration range(g)	2/5/10/200
Amplitude nonlinearity.....	1%
Frequency response(+/-3dB):	
2g.....	0 - 400 Hz
5g.....	0 - 400 Hz
10g.....	0 - 400 Hz
200g.....	0 - 1000 Hz
Transverse sensitivity, max.....	3% of axial

Electrical

Power requirement:	5.5 - 30 VDC
Zero voltage.....	2.5 $\pm$ 0.1V
Current consumption	<4 mA
Residual noise, Broadband Spectral:	
5g/10g.....	500 μ V RMS
2g.....	1000 μ V RMS
200g.....	1300 μ V RMS
Output impedance.....	<100 Ω
Insulation resistance(@500Vdc).....	>100 M Ω
Turn-on time.....	<100 ms

Environmental

Temperature range.....	-40 to 85°C
Thermal zero shift(max. ref.24°C).....	$\pm 2\%$ FSO
Thermal sensitivity shift(max. ref.24°C).....	$\pm 2\%$
Vibration limit.....	100 g peak
Shock limit.....	5,000 g peak
Sealing	IP67

Physical

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

Accessories

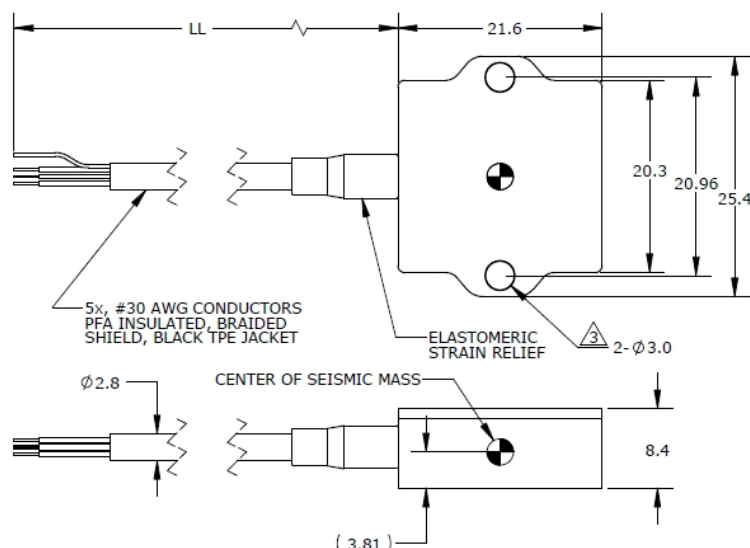
2x M3 Screws (Mounting torque 0.7 Nm)
5 Meter mating cable(or customers specified)
Calibration certificate

Features

- DC response
- 2 to 200g full scale
- Motion, low frequency, tilt
- 5K g shock survivability
- Temperature compensation

Application

- Automotive road test
- High speed train
- Maglev dynamic position
- Suspension monitoring
- Aircraft testing
- Static acceleration
- Transmission test



Ordering Information

813-5-3
Special cable length(meter)
Range in g
Model

