Senther 819

DC response accelerometer

Features

- DC response
- 2 to 100g full scale
- Extreme low noise
- High frequency response
- Motion, low frequency, tilt
- 5K g shock survivability

Dynamic

FSO, ±10%, 24°C..... ±2000 mV
Acceleration range(g) 2/5/10/20/50/100
Amplitude nonlinearity..... 1%
Frequency response(+/-3dB):
2g..... 0 - 1300 Hz
5g..... 0 - 1300 Hz
10g..... 0 - 1300 Hz
20g..... 0 - 1300 Hz
50g..... 0 - 10000 Hz
100g..... 0 - 10000 Hz
Transverse sensitivity, max..... 3% of axial

Electrical

Power requirement: ..... 8 - 36 VDC
Zero voltage..... 2.5±0.05V
Current consumption ..... <15 mA
Residual noise, Broadband Spectral:
2g..... 20μg/ √Hz
5g/10g..... 80μg/ √Hz
20g..... 160μg/ √Hz
50g/100g.....30μg/ √Hz
Output impedance..... <100 Ω
Insulation resistance(@500Vdc)..... >100 MΩ
Turn-on time..... <100 mS

Environmental

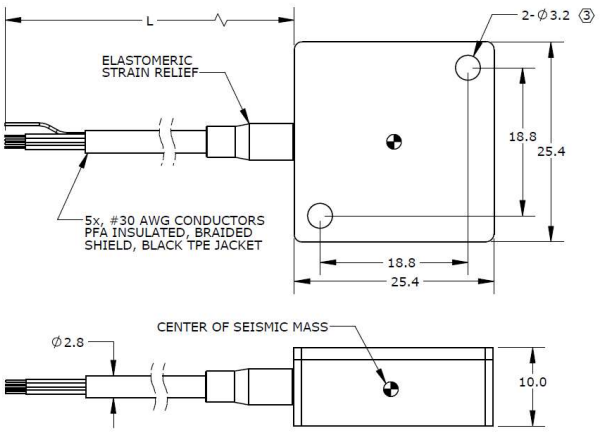
Temperature range..... –40 to 125°C
Thermal zero shift(max. ref.24°C)..... ±1.5%FSO
Thermal sensitivity shift(max. ref.24°C)..... ±2%
Shock limit..... 5,000 g peak
Sealing IP67

Physical

Sensing element..... MEMS(VC)
Weight..... 12 grams
Case material..... Anodized aluminum
Mounting..... M3 Screws
Output connector..... Option

Accessories

2x M3 Screws (Mounting torque 0.7 Nm)
Calibration certificate
Note: Frequency response limits spectral and noise values are typical



Ordering Information

819-20-3
- Special cable length(meter)
- Range in g