

Tri-axial piezo-resistive accelerometer



Features

- Water proof
- DC response
- 50 to 2000 g full scale
- Shock, low & high frequency
- 6K g shock survivability
- Light weight

Dynamic

| | |
|----------------------------------|---------------------|
| FSO, Typical, 25°C..... | ±100~300 mV |
| Acceleration range(g) | 50/100/200/500/2000 |
| Amplitude nonlinearity..... | 1% |
| Frequency response(+/-10%): | |
| 50g..... | 0 - 600 Hz |
| 100g..... | 0 - 800 Hz |
| 200g..... | 0 - 1000 Hz |
| 500g..... | 0 - 1200 Hz |
| 2000g..... | 0 - 1500 Hz |
| Zero..... | ±50mV |
| Transverse sensitivity, max..... | 3% of axial |
| Temperature response, max: | |
| Zero shift | ±0.1%SFO/°C |
| Scale shift..... | ±0.2%/°C |

Electrical

| | |
|---------------------------------------|---------------------|
| Power requirement: | 2 - 10 VDC |
| Current consumption | <12 mA |
| Input Resistance (Ω) | 2400-6000 |
| Output Resistance (Ω) | 2400-6000 |
| Electrical noise, Broadband Spectral: | |
| 0 Hz to 4 kHz..... | 27µV/√Hz |
| Output load..... | Min. 50 Kohm |
| Grounding..... | Internally shielded |

Environmental

| | |
|------------------------|----------------------|
| Temperature range..... | -20 to 85°C |
| Shock limit..... | 3000~5000 g peak |
| Resolution..... | 10 ⁻⁴ SFO |
| Sealing | Epoxy, IP67 |

Physical

| | |
|-----------------------|-------------------|
| Sensing element..... | MEMS |
| Weight..... | 9 grams |
| Case material..... | Anodized Aluminum |
| Mounting..... | 4-40 Screws |
| Output connector..... | Option |

Accessories

- 2x 4-40 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

430-50-5
 Cable in meter
 Range in g
 Model

