

HS-004 Low Power Accelerometer Capsule

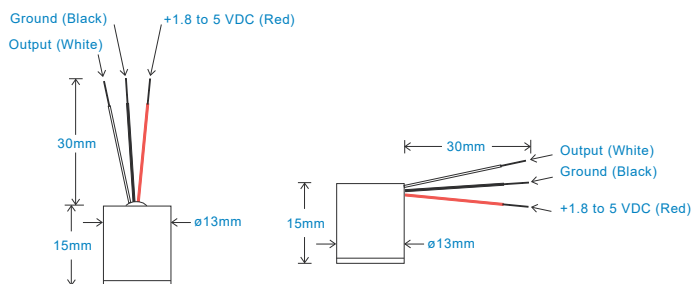
AC acceleration output

Key Features

- OEM Capsule
- Low voltage
- Ultra low power consumption

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	0.3Hz (18cpm) to 15kHz (900kcpm) ± 3 dB
Isolation	Base isolated
Range	see: 'How To Order' table @ 5V power
Transverse Sensitivity	Less than 5%
Broadband Resolution	<500 μ g
Amplitude Linearity	$\pm 1\%$

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Weight	18gms (nominal)

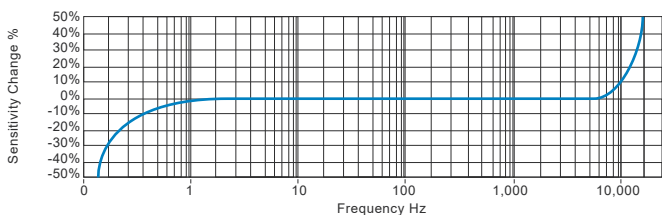
Electrical

Electrical Noise	< 500 μ g
Power Requirements	see: 'How To Order' table
Current Consumption	100 μ A nominal at 5V supply (60 μ A at 1.8V)
Bias Voltage	50% of supply voltage
Settling Time	1 second
Output Impedance	100 Ohms max.
Case Isolation	>108 Ohms at 500 Volts

Environmental

Operating Temperature Range	-40 to 120°C
Sealing	IP55
Maximum Shock	5000g
EMC	EN61326-1:2013
Electromagnetic Sensitivity	150 μ g/gauss

Typical Frequency Response (at 100mV/g)



Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

How To Order

