HS-104 Low Power Accelerometer

AC acceleration output via Silicon Cable

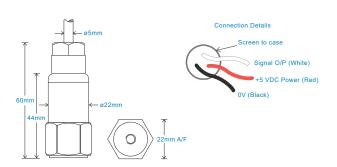
Key Features

- · Low voltage
- Ultra low power consumption
- · Customisable features

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 ±10%
Nominal 80Hz at 22°C
Frequency Response 0.3Hz (18cpm) to 10kHz (600kcpm) ± 10%
Isolation Base isolated
Range see: 'How To Order' table @ 5V power
Transverse Sensitivity Less than 5%
Amplitude Linearity ±1%

Mechanical

Stainless Steel Case Material Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Weight 106gms (nominal) Mounting Threads see: 'How To Order' table Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable Silicon - length to be specified with order Submersible Depth 100 metres max (10 bar)

Electrical

Electrical Noise < 500μg
Power Requirements 5V nominal (other voltages 1.8 to 24V on request)
Current Consumption 100μA nominal at 5V supply (60μA 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

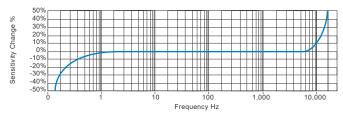
 Operating Temperature Range
 -50 to 125°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



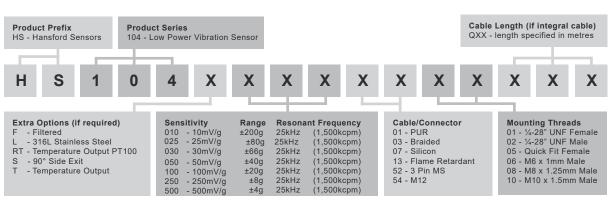
Applications

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

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



How To Order





www.hansfordsensors.com sales@hansfordsensors.com

