HS-104 Low Power Accelerometer

AC acceleration output via M12 Connector

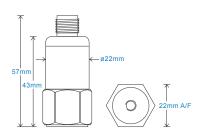
Key Features

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

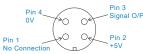
Industries

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





Connection Details



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

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8Nm
Weight 106gms (nominal)
Screened Cable Assembly HS-AC010 - straight
HS-AC011 - right angle
Mounting Threads see: 'How To Order' table

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 >10° Ohms at 500 Volts

Environmental

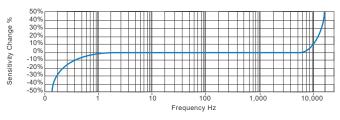
 Operating Temperature Range
 -50 to 125°C

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



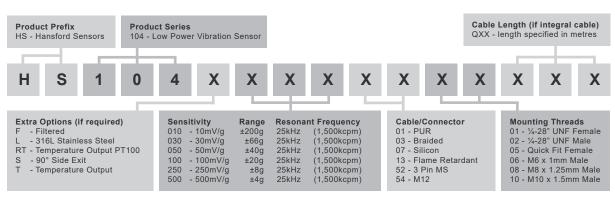
Applications

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





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