HS-100S Accelerometer

AC acceleration output via 4 Core Polyolefin HFFR

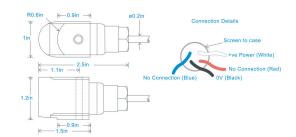
Key Features

- · For use with data collector
- · Side entry for easy access
- · 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 72°F

 Frequency Response
 120cpm (2Hz) to 600kcpm (10kHz) ± 5%

 90cpm (1.5Hz) to 720kcpm (12kHz) ± 10%

 48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB

 Isolation
 Base isolated

 Range
 see: 'How To Order' table

 Transverse Sensitivity
 Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque 5.9ft. Lbs Mounting Bolt provided see: 'How To Order' table x 1.2in long Weight 7.2 oz. (nominal) body only Maximum Cable Length 3,280 ft. Standard Cable Length Screened Cable Polyolefin HFFR - length to be specified with order Screened Cable Assembly see: www.hansfordsensors.com for options Connector Mounting Threads see: 'How To Order' table x 1.2in long

Electrical

 Excitation Voltage
 18-30Volts DC

 Electrical Noise
 0.1mg max

 Current Range
 0.5mA to 8mA

 Bias Voltage
 10 - 12 Volts DC

 Settling Time
 2 seconds

 Output Impedance
 200 Ohms max

 Case Isolation
 >10^8 Ohms at 500 Volts

Environmental

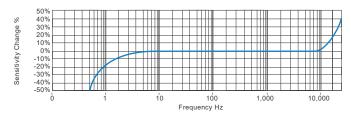
 Operating Temperature Range
 -67 to 284°F

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



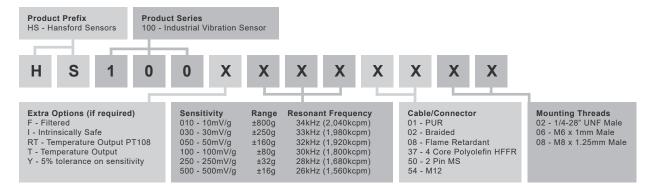
Applications

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

