HS-173 Premium Triaxial Accelerometer

Less than 5%

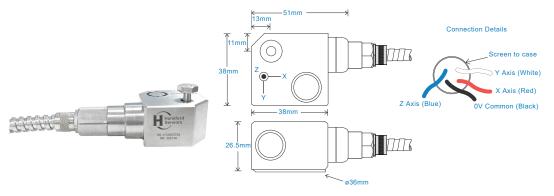
AC acceleration output via 4 Core Polyolefin HFFR with Protective Conduit

Key Features

- · Output via three axes
- For use with data collector
- · Resistant to oil

Industries

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



Technical Performance

 $\begin{array}{c} \mbox{Mounted Base Resonance} & \mbox{see 'How To Order' table (nominal)} \\ & + 3 \mbox{kHz for aluminium version} \\ \mbox{Sensitivity} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22^{\circ}\mbox{C per axies} \\ \mbox{Frequency Response} & 2 \mbox{Hz (} 120\mbox{cpm) to } 10\mbox{kHz (} 600\mbox{kcpm)} \pm 5\%$} \\ \mbox{1.5Hz (} 90\mbox{cpm) to } 12\mbox{kHz (} 720\mbox{kcpm)} \pm 10\%$} \\ \mbox{0.8Hz (} 48\mbox{cpm) to } 15\mbox{kHz (} 900\mbox{kcpm)} \pm 3\mbox{dB} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \end{array}$

Mechanical

Case Material Stainless Steel unless specified Aluminium Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long 235gms (nominal) - Stainless Steel Weight 115gms (nominal) - Aluminium Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable Polyolefin HFFR - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 100 metres max (10 bar)

Electrical

Transverse Sensitivity

 Electrical Noise
 0.1mg max

 Current Range
 0.5mA to 8mA

 Bias Voltage
 10 - 12 Volts DC

 Settling Time
 1 second

 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

Environmental

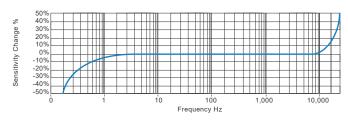
 Operating Temperature Range
 -55 to 130°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



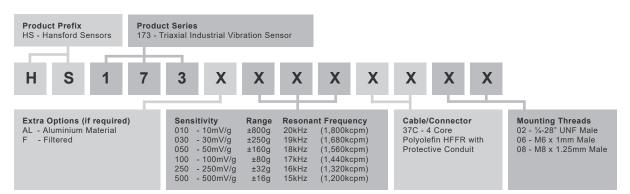
Applications

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

