HS-107S Accelerometer

AC acceleration output via 2 Pin MS Connector

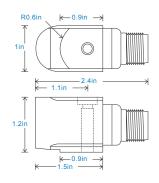
Key Features

- Line Drive
- · For use with data collector
- Customisable features
- · Side entry for easy access

Industries

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







Technical Performance

 $\begin{array}{c} \mbox{Mounted Base Resonance} & \mbox{see 'How To Order' table (nominal)} \\ \mbox{Sensitivity} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal $80 \mbox{Hz}$ at $72^\circ \mbox{F}$} \\ \mbox{Frequency Response} & 120 \mbox{cpm} (2 \mbox{Hz}) \mbox{to } 600 \mbox{kcpm} (10 \mbox{kHz}) $\pm 5\%$} \\ \mbox{90 \mbox{cpm}} (1.5 \mbox{Hz}) \mbox{to } 720 \mbox{kcpm} (12 \mbox{kHz}) $\pm 10\%$} \\ \mbox{48 \mbox{cpm}} (0.8 \mbox{Hz}) \mbox{to } 900 \mbox{kcpm} (15 \mbox{kHz}) $\pm 3 \mbox{dB}$} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \mbox{Transverse Sensitivity} & \mbox{Less than } 5\%$} \\ \end{array}$

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 6.5 oz. (nominal) body only Sheilded Cable Assembly see: www.hansfordsensors.com for options Connector HS-AA004 - non-booted HS-AA053 or HS-AA054 - booted Mounting Threads see: 'How To Order' table

Electrical

 Electrical Noise
 0.1mg max

 Supply Voltage
 7.5 - 24Volts DC

 Bias Current
 3.5mA

 Settling Time
 2 seconds

 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

Environmental

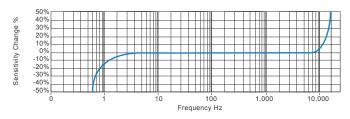
 Operating Temperature Range
 -67 to 284°F

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



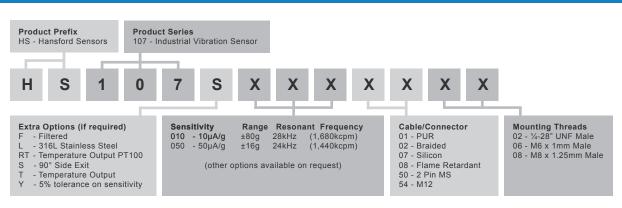
Applications

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 sales@hansfordsensors.com

