HS-100S Accelerometer

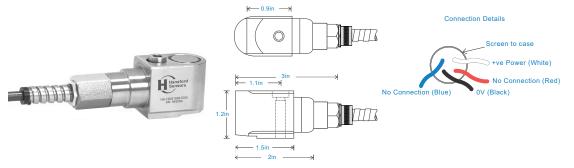
AC acceleration output via 4 Core PUR Cable with Removable Stainless Steel Conduit

Key Features

- · Waterproof to IP68
- · Side entry for easy access
- · Removable Conduit

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)} \\ \mbox{Sensitivity} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 72^{\circ} \mbox{F} \\ \mbox{Frequency Response} & 120 \mbox{cpm (2Hz) to } 600 \mbox{kcpm (}10 \mbox{kHz) $\pm 5\%$} \\ \mbox{90 \mbox{cpm (}1.5 \mbox{Hz) to } 720 \mbox{kcpm (}12 \mbox{kHz) $\pm 10\%$} \\ \mbox{48 \mbox{cpm (}0.8 \mbox{Hz) to } 900 \mbox{kcpm (}15 \mbox{kHz) $\pm 3d$} \mbox{B} \\ \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 6.5 oz. (nominal) body only 3,280 ft. Maximum Cable Length Standard Cable Length 16 ft. PUR - length to be specified with order Screened Cable Mounting Threads see: 'How To Order' table

Electrical

 Excitation Voltage:
 18-30 Volts 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
 >108 Ohms at 500 Volts

Environmental

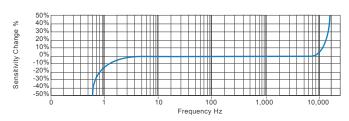
 Operating Temperature Range
 -22 to 194°F

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



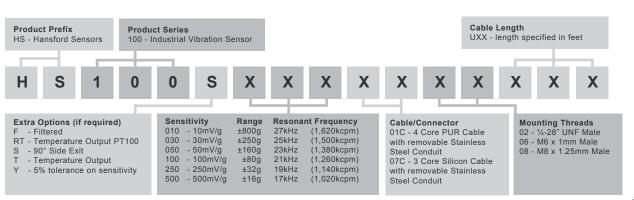
Applications

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

