HS-180S Premium Accelerometer

AC acceleration output via M12 Connector

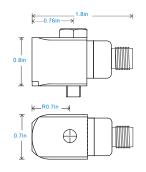
Key Features

- Mini compact design
- Premium design
- · Side entry for easy access

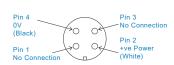
Industries

Automotive, Machine Tools, OEM





Connection Details



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°F} \\ \mbox{Frequency Response} & 120cpm (2Hz) to 840kcpm (14kHz) <math>\pm 5\%$ \\ \mbox{90cpm (1.5Hz) to 960kcpm (16kHz) $\pm 10\%$} \\ \mbox{48cpm (0.8Hz) to 1,140kcpm (19kHz) $\pm 3dB} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \mbox{Transverse Sensitivity} & \mbox{Less than 5\%} \\ \end{array}$

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 5.9ft. lbs
Mounting Bolt Provided see: 'How To Order' table x 1in long
Weight 3 oz. (nominal) body only
Screened cable assembly HS-AC010 - straight
Connector HS-AA043
Mounting Threads see: 'How To Order' table

Electrical

 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

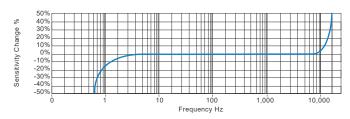
 Operating Temperature Range
 -67 to 266°F

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



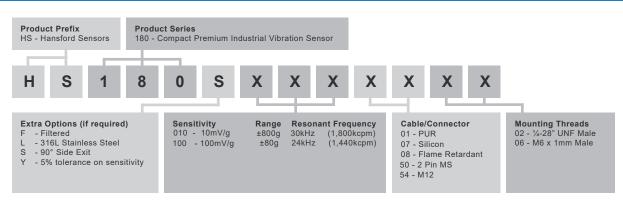
Applications

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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