HS-180S Premium Accelerometer

AC acceleration output via M12 Connector

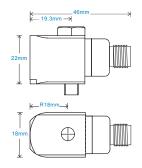
Key Features

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

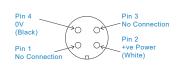
Industries

Automotive, Machine Tools, OEM





Connection Details



Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 14kHz (840kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8 Nm Mounting Bolt Provided see: 'How To Order' table x 27mm long 83gms (nominal) body only HS-AC010 - straight Screened cable assembly Connector HS-AA043 see: 'How To Order' table Mounting Threads

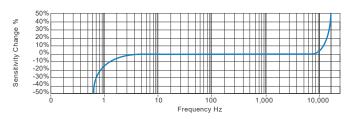
Electrical

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

-55 to 130°C **Operating Temperature Range** Sealing IP67 Maximum Shock 5000g **EMC** EN61326-1:2013

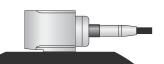
Typical Frequency Response (at 100mV/g)



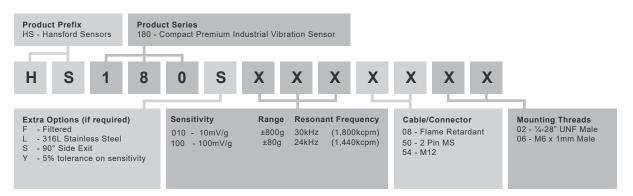
Applications

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





www.hansfordsensors.com sales@hansfordsensors.com



HS-180S Premium Accelerometer

AC acceleration output via 2 Pin MS Connector

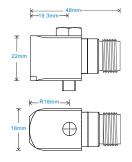
Key Features

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

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 } 22^{\circ}\mbox{C} \\ \mbox{Frequency Response} & \mbox{2Hz (120cpm) to } 14k\mbox{Hz (840kcpm)} \pm 5\%$} \\ \mbox{1.5Hz (90cpm) to } 16k\mbox{Hz (960kcpm)} \pm 10\%$} \\ \mbox{0.8Hz (48cpm) to } 19k\mbox{Hz (1,140kcpm)} \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/Shear
Mounting Torque 8Nm
Mounting Bolt Provided see: 'How To Order' table x 27mm long
Weight 83gms (nominal) body only
Screened cable assembly see: www.hansfordsensor.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

 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

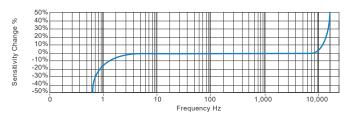
 Operating Temperature Range
 -55 to 130°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



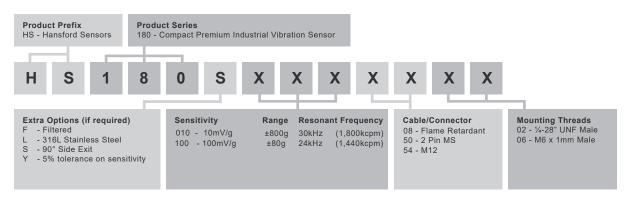
Applications

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

