# **HS-180S Premium Accelerometer**

AC acceleration output via 2 Pin MS Connector

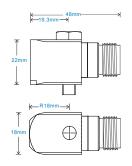
## **Key Features**

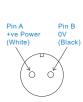
- · Mini compact design
- Side entry for easy access
- · Premium design

#### Industries

Automotive, Machine Tools, OEM







Connection Details

#### **Technical Performance**

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

# 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

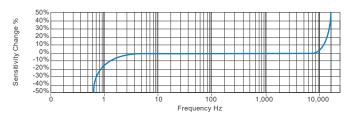
 Operating Temperature Range
 -55 to 130°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

## Typical Frequency Response (at 100mV/g)



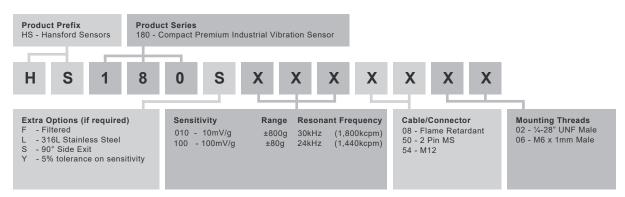
### **Applications**

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

