# **HS-180S Premium Accelerometer**

AC acceleration output via Silicon Cable

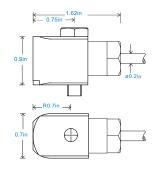
# **Key Features**

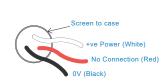
- Mini compact design
- Waterproof
- · Side entry for easy access

## 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 72°F 120cpm (2Hz) to 840kcpm (14kHz)  $\pm$  5% Frequency Response 90cpm (1.5Hz) to 960kcpm (16kHz) ± 10% 48cpm (0.8Hz) to 1,140kcpm (19kHz) ± 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 5.9ft. lbs Mounting Bolt Provided see: 'How To Order' table x 1in long 3 oz. (nominal) body only Maximum Cable Length 3,280 ft. Standard Cable Length 16 ft. Screened Cable Silicon - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 328 ft. max (10 bar)

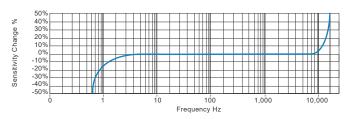
#### Electrical

**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

-58 to 300°F Operating Temperature Range Sealing IP68 Maximum Shock 5000g **EMC** EN61326-1:2013

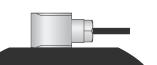
# Typical Frequency Response (at 100mV/g)



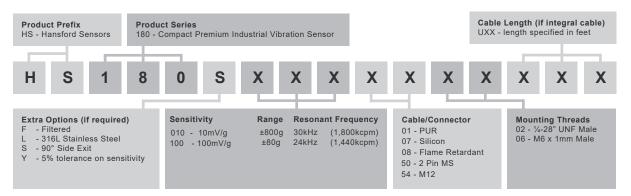
## **Applications**

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

