# **HS-150ST Premium Accelerometer**

AC acceleration and temperature output via M12 Connector

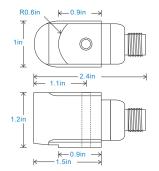
## **Key Features**

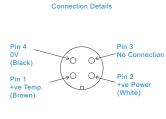
- · Premium design
- · Side entry for easy access
- · Customizable features

#### Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical







## **Technical Performance**

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 72°F Frequency Response 90cpm (1.5Hz) to 600kcpm (10kHz) ± 5% 30cpm (0.5Hz) to 720kcpm (12kHz) ± 10% 12cpm (0.2Hz) to 900kcpm (15kHz) ± 3dB Isolation Base isolated Range see: 'How To Order' table Temperature Output 10 mV/°C standard 212°F - Option 266°F 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 1.4in long
Weight 7.2 oz. (nominal) body only
Screened Cable Assembly HS-AC010 - straight
HS-AC011 - right angle
Mounting Threads see: 'How To Order' table

#### Electrical

 Excitation Voltage:
 18-30Volts DC

 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

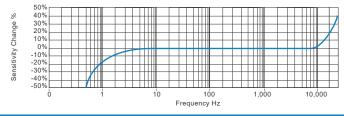
 Operating Temperature Range
 -67 to 300°F

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

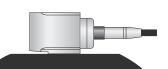
## Typical Frequency Response (at 100mV/g)



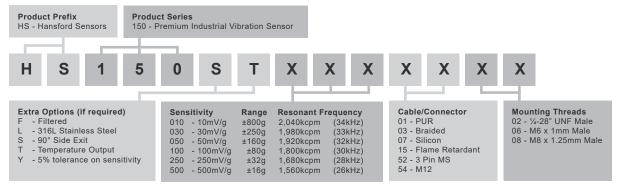
## **Applications**

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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