# **HS-100 Accelerometer**

# **AC** acceleration output via Flame Retardant Cable

### **Key Features**

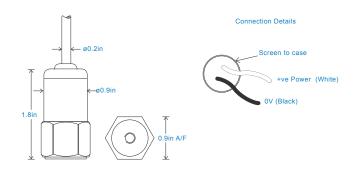
- · Low smoke, halogen free cable
- · For use with data collector
- · Customisable features

#### Industries

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



Less than 5%



# 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 600kcpm (10kHz) <math>\pm 5\%$ \\ \mbox{90cpm (1.5Hz) to 720kcpm (12kHz) <math>\pm 10\%$} \\ \mbox{48cpm (0.8Hz) to 900kcpm (15kHz) <math>\pm 3dB$} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \end{array}$ 

#### Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque 5.9ft. lbs 3.7 oz. (nominal) body only Weight Maximum Cable Length 3.280 ft. Standard Cable Length 16 ft. Shielded Cable Flame Retardant - length to be specified with order Mounting Threads see: 'How To Order' table

#### Electrical

Transverse Sensitivity

 Excitation Voltage
 18-30Volts DC

 Electrical Noise
 0.1mg max

 Current Range
 0.5mA to 8mA

 Bias Voltage
 10 - 12 Volts DC

 Settling Time
 2 seconds

 Output Impedance
 200 Ohms max

 Case Isolation
 >108 Ohms at 500 Volts

#### Environmental

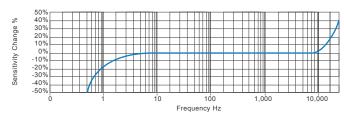
 Operating Temperature Range
 -40 to 212°F

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

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



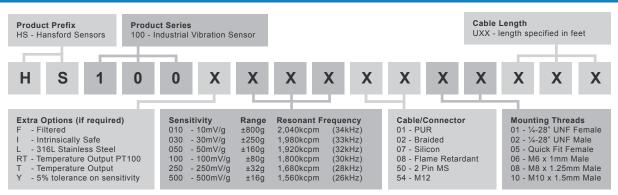
#### **Applications**

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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