# **HS-100SF Accelerometer**

## AC acceleration output via Flame Retardant Cable

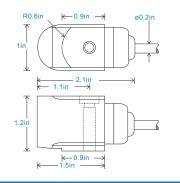
#### **Key Features**

- · Low smoke, halogen free cable
- · Side entry for easy access
- · Filtered output

#### Industries

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







#### **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} & \mbox{90cpm } (1.5\text{Hz}) \mbox{ to 600kcpm } (10\text{kHz}) $\pm 5\%$} \\ \mbox{30cpm } (0.5\text{Hz}) \mbox{ to 720kcpm } (12\text{kHz}) $\pm 10\%$} \\ \mbox{12cpm } (0.2\text{Hz}) \mbox{ to 900kcpm } (15\text{kHz}) $\pm 3\text{dB}$} \\ \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/Compression Mounting Torque 5.9ft. lbs Mounting Bolt provided see: 'How To Order' table x 1.2in long 6.5 oz. (nominal) body only Weight Maxiumum Cable Length 3,280 ft. Standard Cable Length Shielded Cable Flame Retardant - length to be specified with order 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
 2 seconds

 Output Impedance
 200 Ohms max

 Case Isolation
 >108 Ohms at 500 Volts

#### Environmental

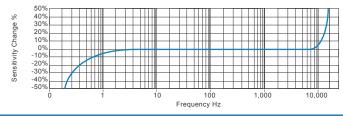
 Operating Temperature Range
 -40 to 212°F

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

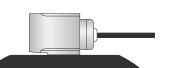
#### Typical Frequency Response (at 100mV/g)



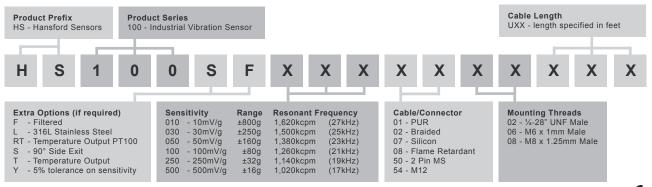
#### **Applications**

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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