# **HS-100S Accelerometer**

AC acceleration output via Braided Cable

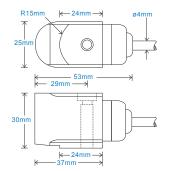
## **Key Features**

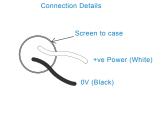
- · For use with data collector
- · Side entry for easy access
- · Customisable features

#### 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 } 22^{\circ}\mbox{C} \\ \mbox{Frequency Response} & \mbox{2Hz (120cpm) to } 10kHz (600kcpm) $\pm 5\%$} \\ \mbox{1.5Hz (90cpm) to } 12kHz (720kcpm) $\pm 10\%$} \\ \mbox{0.8Hz (48cpm) to } 15kHz (900kcpm) $\pm 3dB$} \\ \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 Mounting Bolt provided see: 'How To Order' table x 30mm long 185gms (nominal) Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable Braided - length to be specified with order 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
 2 seconds

 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

#### Environmental

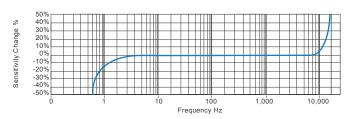
 Operating Temperature Range
 -55 to 140°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

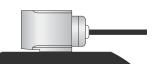
# Typical Frequency Response (at 100mV/g)



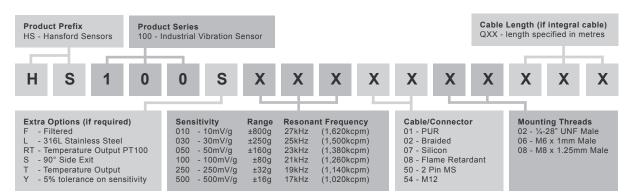
#### **Applications**

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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