# **HS-173 Premium Triaxial Accelerometer**

AC acceleration output via PUR cable

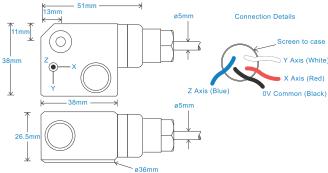
#### **Key Features**

- · Output via three axes
- Waterproof
- Resistant to oil

#### 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 $22^{\circ}$C per axies} \\ \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 unless specified Aluminium Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 235gms (nominal) - Stainless Steel Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable PUR - length to be specified with order Mounting Threads see: 'How To Order' table Mounting Stud HS-AS226, HS-AS221 or HS-AS222 Submersible Depth 100 metres 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

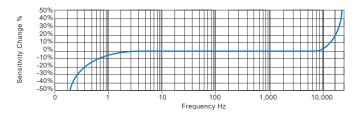
 Output Impedance
 200 Ohms max

 Case Isolation
 >108 Ohms at 500 Volts

#### Environmental

Operating Temperature Range	-30 to 90°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

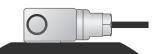
# Typical Frequency Response (at 100mV/g)



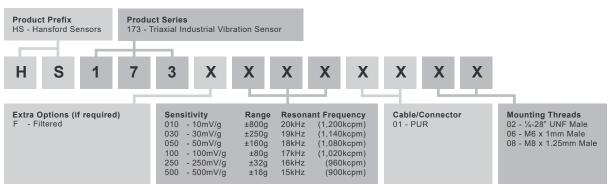
#### **Applications**

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

