# **HS-422 Accelerometer**

## 4-20mA acceleration output via Braided Cable

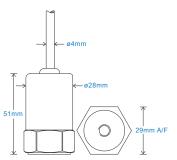
#### **Key Features**

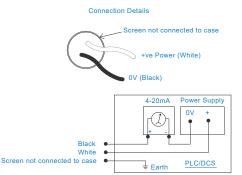
- 4-20mA acceleration output
- · For use with PLC/DCS systems
- · Customisable features

#### Industries

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







#### **Technical Performance**

 $\begin{array}{ccc} \mbox{Mounted Base Resonance} & 10\mbox{kHz min} \\ \mbox{Acceleration Ranges} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22\mbox{°C} \\ \mbox{Frequency Response} & 10\mbox{Hz} (600\mbox{cpm}) \mbox{ to } 5\mbox{kHz} (300\mbox{kcpm}) $\pm 5\%$} \\ \mbox{- ISO10816} \\ \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 8Nm
Weight 150gms (nominal) body only
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

Transverse Sensitivity

Current Output 4-20mA DC proportional to acceleration
Supply Voltage 15-30 Volts DC (for 4-20mA)
Settling Time 2 seconds
Output Impedance Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation >10<sup>8</sup> Ohms at 500 Volts

#### Environmental

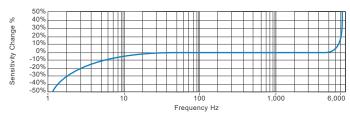
 Operating Temperature Range
 -25 to 120°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

### Typical Frequency Response



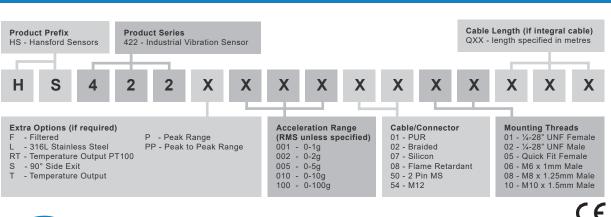
#### **Applications**

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



Less than 5%



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