HS-421 Accelerometer

4-20mA velocity and AC acceleration output via Flame Retardant Cable

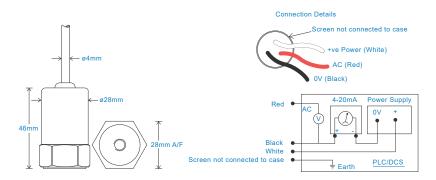
Key Features

- Unique output
- For use with PLC/DCS systems and data collectors
- · Low smoke, halogen free cable

Industries

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





Technical Performance

 $\begin{array}{c} \mbox{Mounted Base Resonance} & 5\mbox{kHz min} \\ \mbox{Velocity Ranges} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22\mbox{°C} \\ \mbox{Frequency Response: } 4-20\mbox{mA} & 10\mbox{Hz (}600\mbox{cpm) to } 1\mbox{kHz (}60\mbox{kpm)} $\pm 5\%$} \\ \mbox{- ISO10816} \\ \mbox{Frequency Response: } AC & 2\mbox{Hz (}120\mbox{cpm) to } 10\mbox{kHz (}600\mbox{kpm)} $\pm 5\%$} \\ \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
Standard Cable Length
Screened Cable Flame Retardant - length to be specified with order
Mounting Threads see: 'How To Order' table

Electrical

Transverse Sensitivity

Outputs

4-20mA DC current proportional to
Range and AC acceleration
Bias Voltage

3 Volts DC (nominal)
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

>108 Ohms at 500 Volts

Environmental

Less than 5%

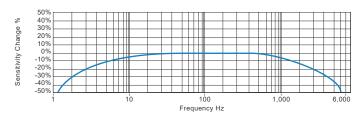
 Operating Temperature Range
 -25 to 90°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (4-20mA signal)



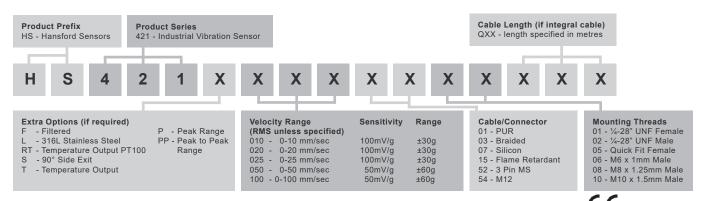
Applications

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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