HS-420S Accelerometer

4-20mA velocity output via Flame Retardant Cable

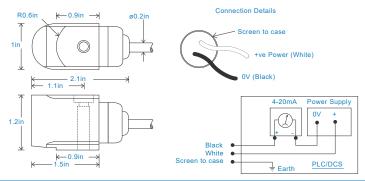
Key Features

- · For use with PLC/DCS systems
- · Side entry for easy access
- · Low smoke, halogen free cable

Industries

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





Technical Performance

 $\begin{array}{ccc} \mbox{Mounted Base Resonance} & 5\mbox{kHz min} \\ \mbox{Velocity Ranges} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at 72°F} \\ \mbox{Frequency Response} & 600\mbox{cpm (10Hz) to 60kcpm (1kHz) $\pm 5\%$ - ISO10816} \\ \mbox{Isolation} & \mbox{Base isolated} \end{array}$

Isolation Base isolated Range 50g peak Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 5.9ft. lbs Mounting Bolt Provided see: 'How To Order' table x 1.2in long Weight 6.5 oz. (nominal) body only Maximum Cable Length 3,280 ft. Standard Cable Length Sheilded Cable Flame Retardant - length to be specified with order Mounting Threads see: 'How To Order' table

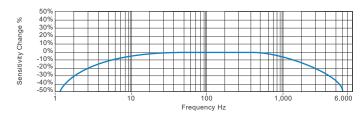
Electrical

Current Output 4-20mA DC proportional to Velocity Range
Supply Voltage 15-30 Volts DC (for 4-20mA)
Settling Time 1 second
Output Impedance Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation >108 Ohms at 500 Volts

Environmental

Operating Temperature Range -13 to 194°F
Sealing IP65
Maximum Shock 5000g
EMC EN61326-1:2013

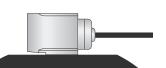
Typical Frequency Response



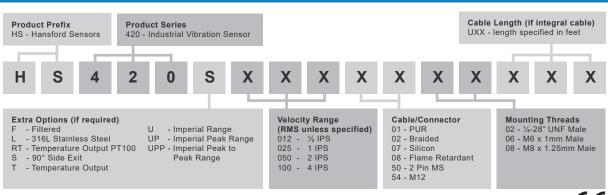
Applications

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





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