HS-421S Accelerometer

4-20mA velocity and AC acceleration output via Braided Cable

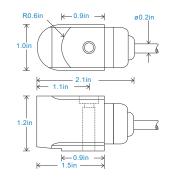
Key Features

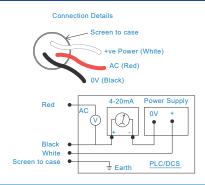
- Unique output
- For use with PLC/DCS systems and data collectors
- · Side entry for easy acccess

Industries

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







Technical Performance

Mounted Base Resonance 5kHz min Velocity Ranges see: 'How To Order' table ±10% Nominal 80Hz at 72°F Frequency Response: 4-20mA 600cpm (10Hz) to 60kcpm (1kHz) ± 5% - ISO10816 120cpm (2Hz) to 600kcpm (10kHz) ± 5% Frequency Response: AC - ISO10816 Isolation Base isolated see: 'How To Order' table Range 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 1.4in long Weight 6.5 oz. (nominal) body only Maximum Cable Length 3,280 ft. Standard Cable Length Sheilded Cable Braided - length to be specified with order Mounting Threads see: 'How To Order' table

Electrical

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

1 second
Output Impedance
Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation

>10⁸ Ohms at 500 Volts

Environmental

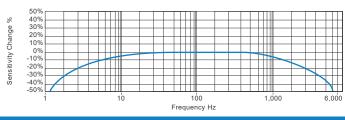
 Operating Temperature Range
 -13 to 248°F

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

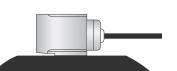
Typical Frequency Response (4-20mA signal)



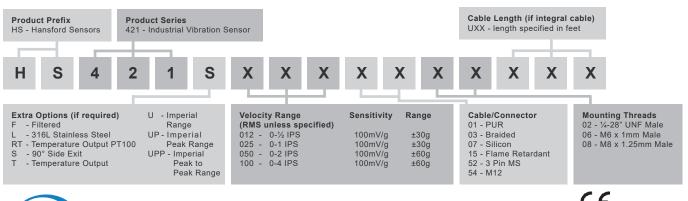
Applications

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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