HS-421T Accelerometer

4-20mA velocity, AC acceleration and temperature output via M12 Connector

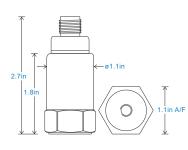
Key Features

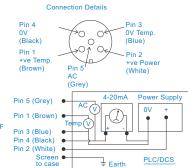
- Unique output
- For use with PLC/DCS systems and data collectors
- · Temperature output

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 600cpm (10Hz) to 60kcpm (1kHz) ± 5% - ISO10816

Isolation Base isolated

Range see: 'How To Order' table

Temperature Output 10mV/°C - 0-1V proportional to 32-212°F (to convert

out 10mV/°C - 0-1V proportional to 32-212°F (to convert this to 4-20mA use the HS-540 module)

Transverse Sensitivity Less that

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Compression
Mounting Torque 5.9ft. lbs
Weight 5.2 oz. (nominal) body only
Sheilded Cable Assembly HS-AC303 - straight
HS-AC032 - right angle
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

2 seconds
Output Impedance
Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation

>108 Ohms at 500 Volts

Environmental

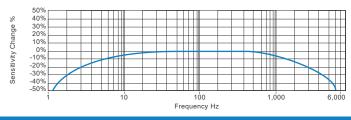
 Operating Temperature Range
 -13 to 194°F

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response



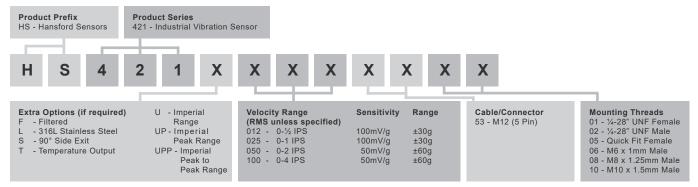
Applications

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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