# **HS-421 Accelerometer**

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

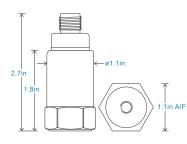
## **Key Features**

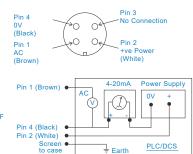
- Unique output
- For use with PLC/DCS systems and data collectors
- · Customizable features

#### Industries

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







Connection Details

## **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)  $\pm$  5% - ISO10816 Isolation Base isolated Range see: 'How To Order' table Transverse Sensitivity Less than 5%

#### 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-AC010 - straight
HS-AC011 - 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

>10<sup>8</sup> Ohms at 500 Volts

#### Environmental

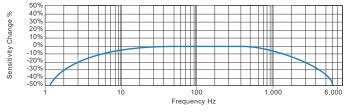
 Operating Temperature Range
 -13 to 248°F

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

#### Typical Frequency Response



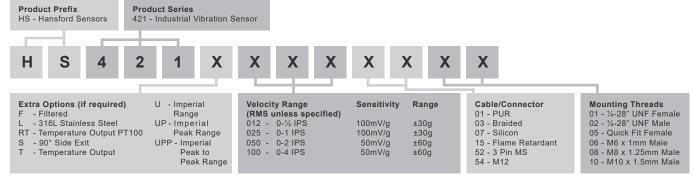
#### **Applications**

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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