# **HS-421 Accelerometer**

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

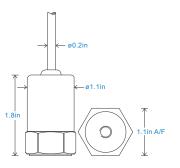
## **Key Features**

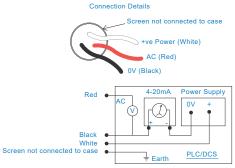
- Unique output
- For use with PLC/DCS systems and data collectors
- · Low smoke, halogen free cable

#### Industries

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







#### **Technical Performance**

 Mounted Base Resonance
 5kHz min

 Velocity Ranges
 see: 'How To Order' table ±10%

 Nominal 80Hz at 72°F
 Nominal 80Hz at 72°F

 Frequency Response: 4-20mA
 600cpm (10Hz) to 60kcpm (1kHz) ± 5%

 - ISO10816
 - ISO10816

 Isolation
 Base isolated

 Range
 see: 'How To Order' table

#### Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque 5.9ft. lbs 5.2 oz. (nominal) body only Weight Maximum Cable Length 3.280 ft. Standard Cable Length 16 ft. Sheilded 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%

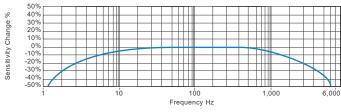
 Operating Temperature Range
 -13 to 194°F

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

#### Typical Frequency Response (4-20mA signal)



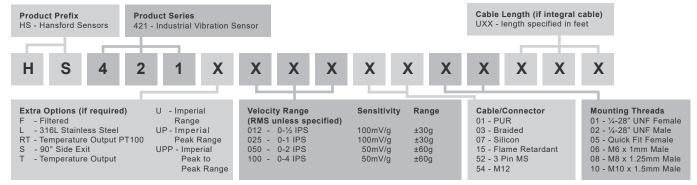
# Applications

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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