# **HS-421S Accelerometer**

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

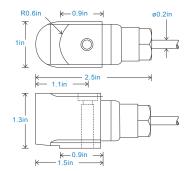
## **Key Features**

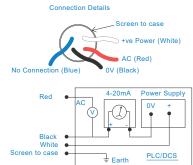
- For use with PLC/DCS systems and data collectors
- · Waterproof
- · Resistant to oil

#### 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 PUR - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 328 ft. max (10 bar)

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

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

#### Environmental

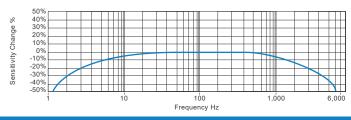
 Operating Temperature Range
 -25 to 90°C

 Sealing
 IP68

 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

