# **HS-421 Accelerometer**

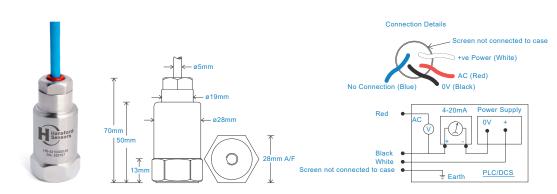
# 4-20mA velocity and AC acceleration output via PUR Cable

## **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 22°C Frequency Response: 4-20mA 10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816 Frequency Response: AC 2Hz (120cpm) to 10kHz (600kcpm) ± 5% - ISO10816 Isolation Base isolated see: 'How To Order' table Less than 5%

#### Mechanical

Stainless Steel Case Material Sensing Element/Construction PZT/Compression Mounting Torque 8Nm Weight 150gms (nominal) Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable PUR - length to be specified with order see: 'How To Order' table Mounting Threads Submersible Depth 100 metres max (10 bar)

## Electrical

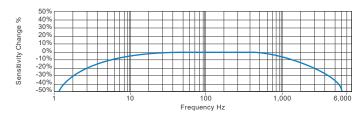
Transverse Sensitivity

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

-25 to 90°C Operating Temperature Range Sealing IP68 Maximum Shock 5000g **EMC** EN61326-1:2013

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



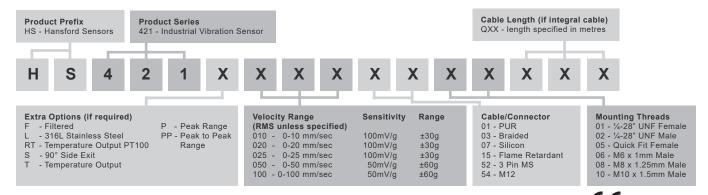
## **Applications**

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





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