# **HS-421T Accelerometer**

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

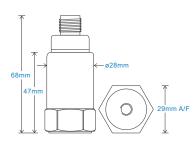
## **Key Features**

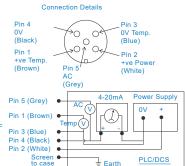
- Unique output
- For use with PLC/DCS systems and data collectors
- Temperature output

### Industries

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







### **Technical Performance**

 $\begin{array}{c} \mbox{Mounted Base Resonance} & 5\mbox{kHz min} \\ \mbox{Velocity Ranges} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22\mbox{°C} \\ \mbox{Frequency Response: } 4-20\mbox{mA} & 10\mbox{Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$} \\ \mbox{- ISO10816} \\ \mbox{Frequency Response: AC} & 2\mbox{Hz (120cpm) to } 10\mbox{kHz (600kcpm)} $\pm 5\%$} \\ \mbox{- ISO10816} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \end{array}$ 

Isolation

Range

See: 'How To Order' table

Temperature Output

10mV/°C - 0-1V proportional to 0-100°C (to convert

this to 4-20mA use the HS-540 module)

Transverse Sensitivity Less than 5%

#### Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Compression
Mounting Torque 8Nm
Weight 150gms (nominal) body only
Screened Cable Assembly HS-AC303 - straight
HS-AC032 - right angle
Mounting Threads see: 'How To Order' table

#### Electrical

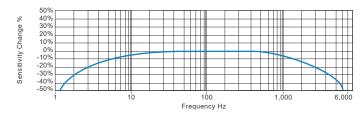
Outputs

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	-25 to 90°C
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

# Typical Frequency Response (4-20mA signal)



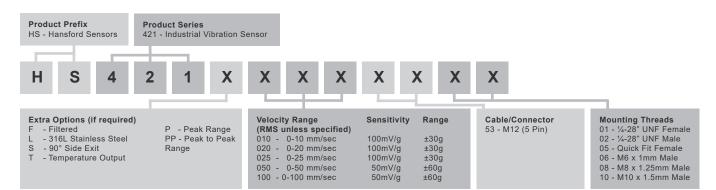
### **Applications**

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





# Distributor in Egypt



www.hansfordsensors.com sales@hansfordsensors.com



