# HS-420S Accelerometer

4-20mA velocity output via Flame Retardant Cable

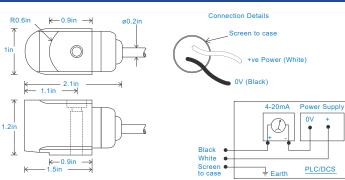
## **Key Features**

- · For use with PLC/DCS systems
- Side entry for easy access
- Low smoke, halogen free cable



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





## **Technical Performance**

Mounted Base Resonance	e 5kHz min
Velocity Ranges	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	600cpm (10Hz) to 60kcpm (1kHz) ± 5% - ISO10816
Isolation	Base isolated
Range	50g peak
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construct	tion PZT/Shear
Mounting Torque	5.9ft. Ibs
Mounting Bolt Provided	see: 'How To Order' table x 1.2in long
Weight	6.5 oz. (nominal) body only
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

 Current Output
 4-20mA DC proportional to Velocity Range

 Supply Voltage
 15-30 Volts DC (for 4-20mA)

 Settling Time
 1 second

 Output Impedance
 Loop Resistance 600 Ohms max. at 24 Volts

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

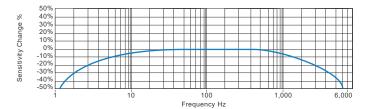
# Environmental

Mechanical

Operating Temperature Range Sealing Maximum Shock EMC

-13 to 194°F
IP65
5000g
EN61326-1:2013

# Typical Frequency Response



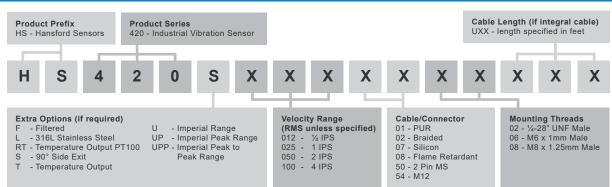
## Applications

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





www.hansfordsensors.com sales@hansfordsensors.com



We reserve the right to alter the specification of this product without prior notice TS322U.5