# HS-421 Accelerometer

4-20mA velocity and AC acceleration output via Braided Cable

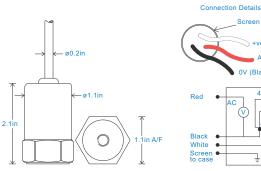
## **Key Features**

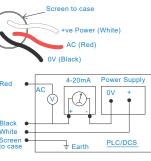
- Unique output
- · For use with PLC/DCS systems and data collectors
- Customizable features

#### Industries

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







#### **Technical Performance**

Mounted Base Resonanc	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	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

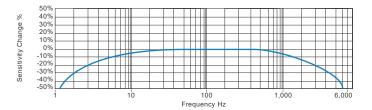
N	ec	ha	nic	al

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque 5.9ft. lbs Weight 5.2 oz. (nominal) body only Maximum Cable Length 3,280 ft. Standard Cable Length Sheilded Cable Braided - length to be specified with order 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	>10 <sup>8</sup> Ohms at 500 Volts

## **Typical Frequency Response**



# Environmental

**Operating Temperature Range** Sealing Maximum Shock EMC

-13 to 248°F IP65 5000g EN61326-1:2013

16 ft.

#### 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

Product Prefix HS - Hansford SensorsProduct Series 421 - Industrial Vibration SensorCable Length (if integral cable) UXX - length specified in feet					
H S 4 Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT		X X X X Velocity Range (RMS unless specified) 012 - 0-½ IPS 025 - 0-1 IPS 025 - 0-1 IPS	X X X Sensitivity Range 100mV/g ±30g 100mV/g ±30g	XXXXX Cable/Connector 01 - PUR 03 - Braided 07 - Silicon	X Mounting Threads 01 - ¼-28" UNF Female 02 - ¼-28" UNF Male 05 - Quick Fit Female
S - 90° Side Exit T - Temperature Output	UPP - Imperial Peak to Peak Range	050 - 0-2 IPS 100 - 0-4 IPS	50mV/g ±60g 50mV/g ±60g	15 - Flame Retardant 52 - 3 Pin MS 54 - M12	06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male



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We reserve the right to alter the specification of this product without prior notice TS012U.6