

HS-421 Accelerometer

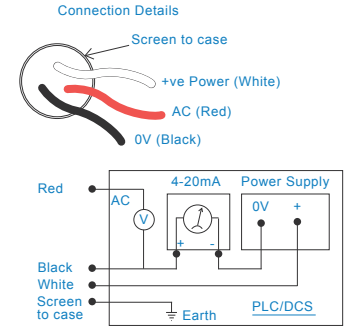
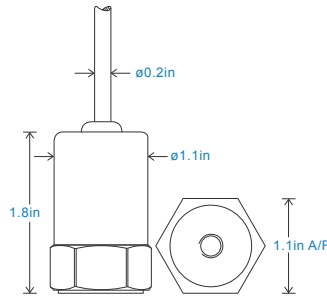
4-20mA velocity and AC acceleration output via Flame Retardant Cable

Key Features

- Unique output
- For use with PLC/DCS systems and data collectors
- Low smoke, halogen free cable

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 $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response	600cpm (10Hz) to 60kcpm (1kHz) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Weight	5.2 oz. (nominal)
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	Flame Retardant - length to be specified with order
Mounting Threads	see: 'How To Order' table

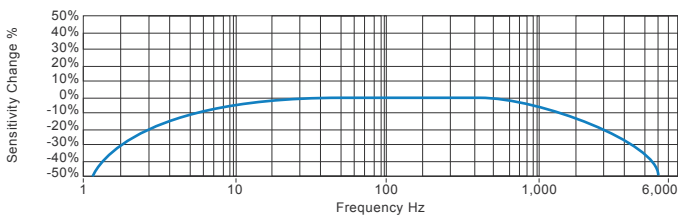
Electrical

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	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-13 to 194°F
Sealing	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

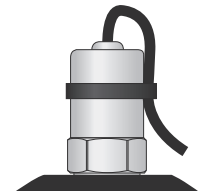
Typical Frequency Response



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

Product Prefix HS - Hansford Sensors		Product Series 421 - Industrial Vibration Sensor					Cable Length (if integral cable) UXX - length specified in feet							
H	S	4	2	1	X	X	X	X	X	X	X	X	X	X
Extra Options (if required)		U - Imperial Range		Velocity Range (RMS unless specified)		Sensitivity		Range		Cable/Connector		Mounting Threads		
F	- Filtered	UP - Imperial Peak Range		012 - 0-½ IPS		100mV/g		$\pm 30g$		01 - PUR		01 - ¼-28" UNF Female		
L	- 316L Stainless Steel	UPP - Imperial Peak to Peak Range		025 - 0-1 IPS		100mV/g		$\pm 30g$		03 - Braided		02 - ¼-28" UNF Male		
RT	- Temperature Output PT100			050 - 0-2 IPS		50mV/g		$\pm 60g$		07 - Silicon		05 - Quick Fit Female		
S	- 90° Side Exit			100 - 0-4 IPS		50mV/g		$\pm 60g$		15 - Flame Retardant		06 - M6 x 1mm Male		
T	- Temperature Output									52 - 3 Pin MS		08 - M8 x 1.25mm Male		
										54 - M12		10 - M10 x 1.5mm Male		



www.hansfordsensors.com
sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice
TS185U.4

