

HS-421 Accelerometer

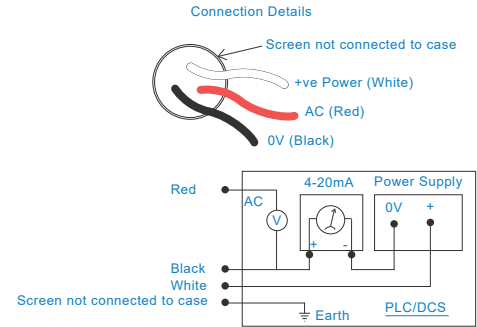
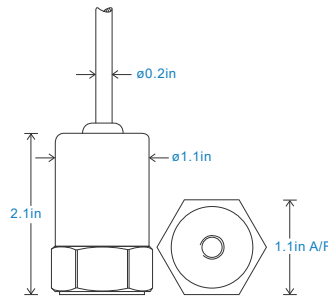
4-20mA velocity and AC acceleration output via Braided Cable

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 Resonance	5kHz min
Velocity Ranges	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response: 4-20mA	600cpm (10Hz) to 60kcpm (1kHz) $\pm 5\%$ - ISO10816
Frequency Response: AC	120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$ - 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) body only
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	Braided - length to be specified with order
Mounting Threads	see: 'How To Order' table

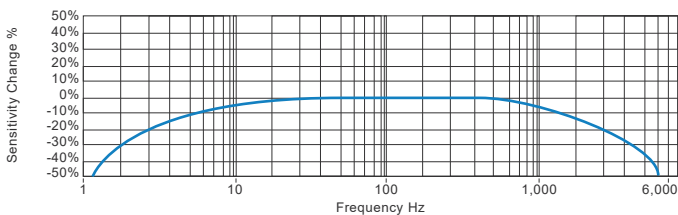
Electrical

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	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-13 to 248°F
Sealing	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

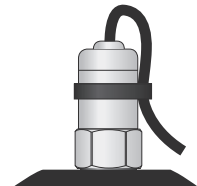
Typical Frequency Response (4-20mA signal)



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

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 - 0-1/2 IPS		100mV/g		$\pm 30g$		01 - PUR		01 - 1/4-28" UNF Female		
L - 316L Stainless Steel		UPP - Imperial Peak to Peak Range		025 - 0-1 IPS		100mV/g		$\pm 30g$		03 - Braided		02 - 1/4-28" 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		



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We reserve the right to alter the specification of this product without prior notice
TS012U.9

