

HS-421 Accelerometer

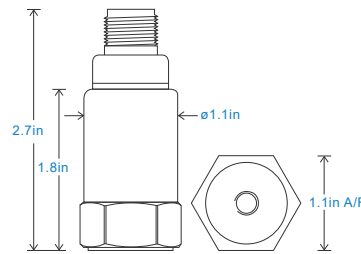
4-20mA velocity and AC acceleration output via 3 Pin MS Connector

Key Features

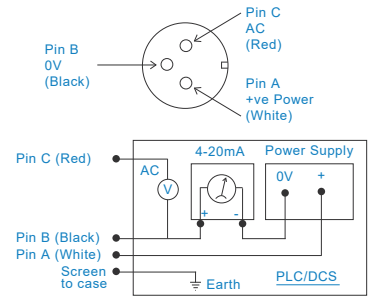
- Unique output
- For use with PLC/DCS systems and data collectors
- Customizable features

Industries

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



Connection Details



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) body only
Shielded Cable Assembly	see: www.hansfordsensors.com for options
Connector	HS-AA005 - non-booted HS-AA068 or HS-0069 - booted
Mounting Threads	see: 'How To Order' table

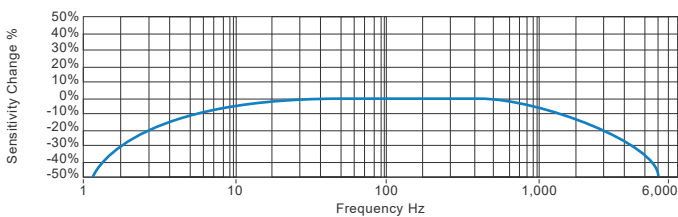
Electrical

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	IP68
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												
H	S	4	2	1	X	X	X	X	X	X	X		
Extra Options (if required)		U - Imperial Range		UP - Imperial Peak Range		UPP - Imperial Peak to Peak Range		Velocity Range (RMS unless specified)		Sensitivity	Range	Cable/Connector	Mounting Threads
F - Filtered	L - 316L Stainless Steel	RT - Temperature Output PT100	S - 90° Side Exit	T - Temperature Output					012 - 0-1/2 IPS	100mV/g	$\pm 30g$	01 - PUR	01 - 1/4-28" UNF Female
									025 - 0-1 IPS	100mV/g	$\pm 30g$	03 - Braided	02 - 1/2-28" UNF Male
									050 - 0-2 IPS	50mV/g	$\pm 60g$	07 - Silicon	05 - Quick Fit Female
									100 - 0-4 IPS	50mV/g	$\pm 60g$	15 - Flame Retardant	06 - M6 x 1mm Male
												52 - 3 Pin MS	08 - M8 x 1.25mm Male
												54 - M12	10 - M10 x 1.5mm Male



www.hansfordsensors.com
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We reserve the right to alter the specification of this product without prior notice
TS102U.7