

HS-421 Accelerometer

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

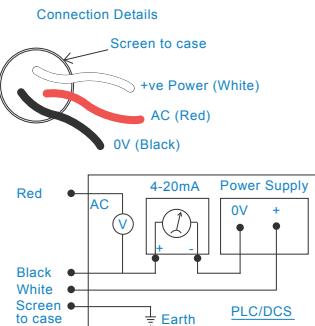
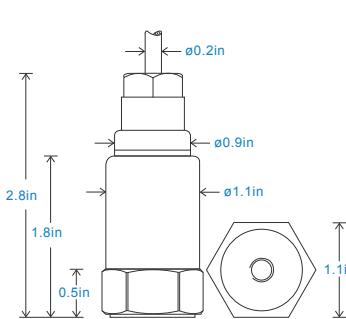
Key Features

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



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.
Sheilded Cable	Silicon - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	328 ft. max (10 bar)

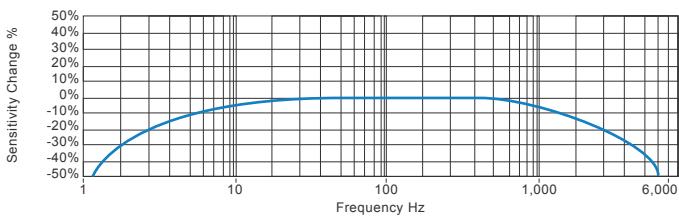
Electrical

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 ⁶ Ohms at 500 Volts

Environmental

Operating Temperature Range	-13 to 194°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	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	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
F - Filtered	UP - Imperial Peak Range	012 - 0-1/2 IPS	100mV/g	$\pm 30g$	01 - PUR
L - 316L Stainless Steel	UPP - Imperial Peak to Peak Range	025 - 0-1 IPS	100mV/g	$\pm 30g$	03 - Braided
RT - Temperature Output PT100	S - 90° Side Exit	050 - 0-2 IPS	50mV/g	$\pm 60g$	07 - Silicon
T - Temperature Output	UPP - Imperial Peak to Peak Range	100 - 0-4 IPS	50mV/g	$\pm 60g$	15 - Flame Retardant
					52 - 3 Pin MS
					54 - M12
					Mounting Threads
					01 - 1/4-28" UNF Female
					02 - 1/4-28" UNF Male
					05 - Quick Fit Female
					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

TS017U.4

