

HS-422 Accelerometer

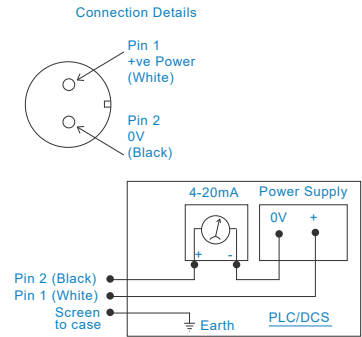
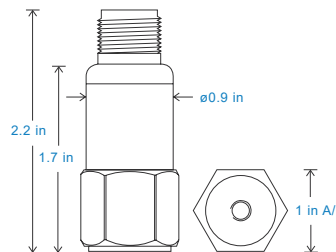
4-20mA acceleration output via 2 Pin MS Connector

Key Features

- 4-20mA acceleration output
- For use with PLC/DCS systems
- Customizable features

Industries

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



Technical Performance

Mounted Base Resonance	10kHz min
Acceleration Ranges	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response	600cpm (10Hz) to 300kcpm (5kHz) $\pm 5\%$ - 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	3.5 oz. (nominal) body only
Shielded Cable Assembly	see: www.hansfordsensors.com for options
Connector	HS-AA004 - non-booted HS-AA053 or HS-0054 - booted
Mounting Threads	see: 'How To Order' table

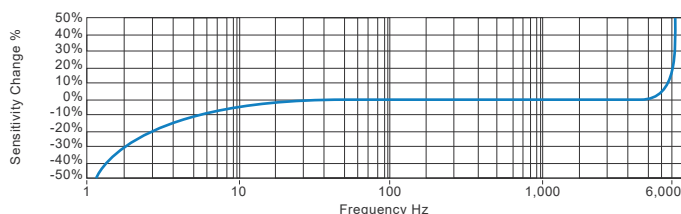
Electrical

Current Output	4-20mA DC proportional to acceleration
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	Product Series											
HS - Hansford Sensors	422 - Industrial Vibration Sensor											
H	S	4	2	2	X	X	X	X	X	X	X	X
Extra Options (if required)		Acceleration Range (RMS unless specified)		Cable/Connector		Mounting Threads						
F - Filtered		001 - 0-1g		01 - PUR		01 - 1/4-28" UNF Female						
L - 316L Stainless Steel		002 - 0-2g		02 - Braided		02 - 1/4-28" UNF Male						
RT - Temperature Output PT100		005 - 0-5g		07 - Silicon		05 - Quick Fit Female						
S - 90° Side Exit		010 - 0-10g		08 - Flame Retardant		06 - M6 x 1mm Male						
T - Temperature Output		100 - 0-100g		50 - 2 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
TS194U.9

