

HS-420 Accelerometer

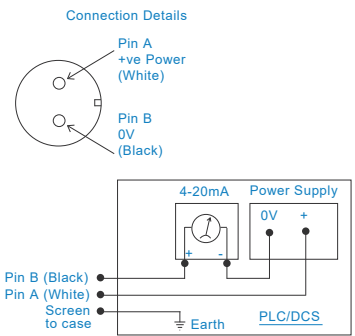
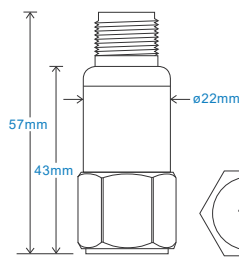
4-20mA velocity output via 2 Pin MS Connector

Key Features

- For use with PLC/DCS systems
- Customisable 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 22°C
Frequency Response	10Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	50g peak
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	100gms (nominal)
Screened Cable Assembly	see: www.hansfordsensors.com for options
Connector	HS-AA004 - non-booted HS-AA053 or HS-AA054 - booted
Mounting Threads	see: 'How To Order' table

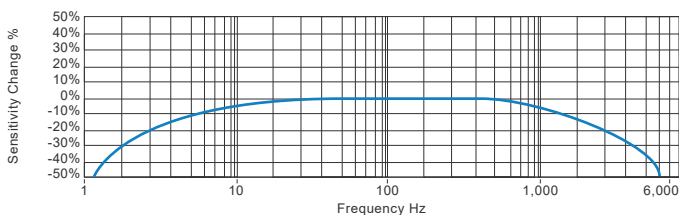
Electrical

Current Output	4-20mA DC proportional to Velocity Range
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	-25 to 120°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

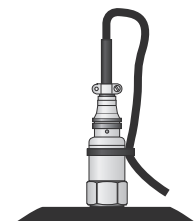
Typical Frequency Response



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		420 - Industrial Vibration Sensor									
H	S	4	2	0	X	X	X	X	X	X	X
Extra Options (if required)					Velocity Range			Cable/Connector		Mounting Threads	
F - Filtered					010 - 0-10 mm/sec			01 - PUR		01 - ¼-28" UNF Female	
I - Intrinsically Safe					020 - 0-20 mm/sec			02 - Braided		02 - ¼-28" UNF Male	
L - 316L Stainless Steel					025 - 0-25 mm/sec			07 - Silicon		05 - Quick Fit Female	
RT - Temperature Output PT100					050 - 0-50 mm/sec			08 - Flame Retardant		06 - M6 x 1mm Male	
S - 90° Side Exit					100 - 0-100 mm/sec			50 - 2 Pin MS		08 - M8 x 1.25mm Male	
T - Temperature Output								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

TS008.12

