

# HS-420 Accelerometer

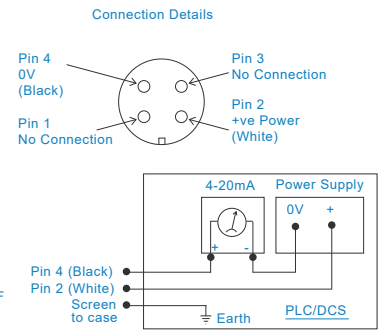
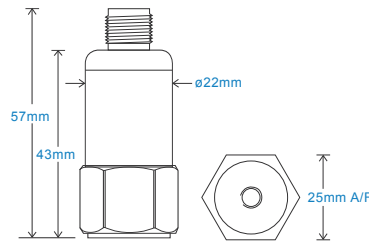
## 4-20mA velocity output via M12 Connector

### 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	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

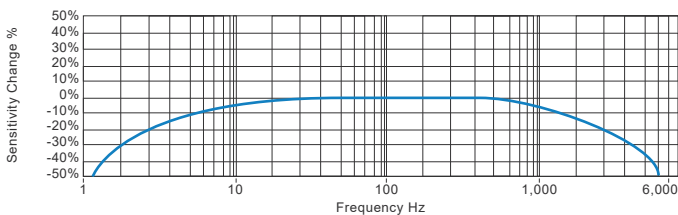
### Electrical

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	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

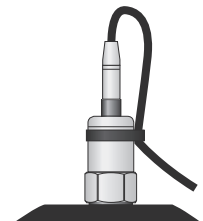
### Typical Frequency Response



### 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

<b>Product Prefix</b> HS - Hansford Sensors	<b>Product Series</b> 420 - Industrial Vibration Sensor											
<b>H</b>	<b>S</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	
<b>Extra Options (if required)</b>					<b>Velocity Range (RMS unless specified)</b>			<b>Cable/Connector</b>			<b>Mounting Threads</b>	
F - Filtered	P - Peak Range		010 - 0-10 mm/sec			01 - PUR			01 - 1/4-28" UNF Female			
I - Intrinsically Safe	PP - Peak to Peak Range		020 - 0-20 mm/sec			02 - Braided			02 - 1/2-28" 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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