

HS-420RT Accelerometer

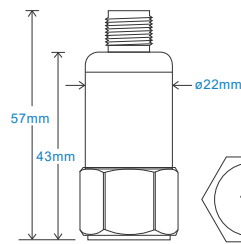
4-20mA velocity and PT100 temperature output via M12 Connector

Key Features

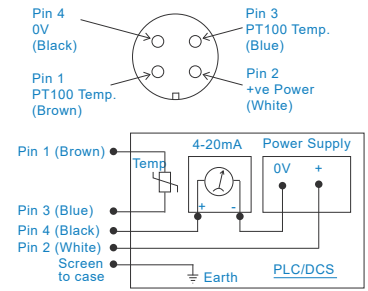
- For use with PLC/DCS systems
- PT100 temperature output

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 22°C
Frequency Response	10Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	50g peak
Temperature Output	PT100 (100 Ohms)
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	100gms (nominal) body only
Screened Cable Assembly	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

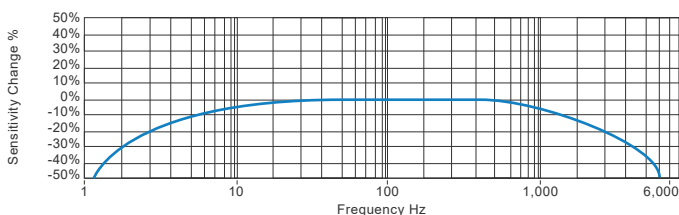
Electrical

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

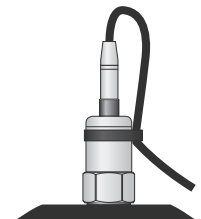
Typical Frequency Response



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

Product Prefix		Product Series										
HS - Hansford Sensors		420 - Industrial Vibration Sensor										
H	S	4	2	0	R	T	X	X	X	X	X	X
Extra Options (if required)						Velocity Range (RMS unless specified)		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		54 - M12		02 - ¼-28" UNF Male		
L - 316L Stainless Steel						025 - 0-25 mm/sec				05 - Quick Fit Female		
RT - Temperature Output PT100						050 - 0-50 mm/sec				06 - M6 x 1mm Male		
S - 90° Side Exit						100 - 0-100 mm/sec				08 - M8 x 1.25mm Male		
										10 - M10 x 1.5mm Male		



www.hansfordsensors.com
sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice
TS114.12

