

HS-420 Accelerometer

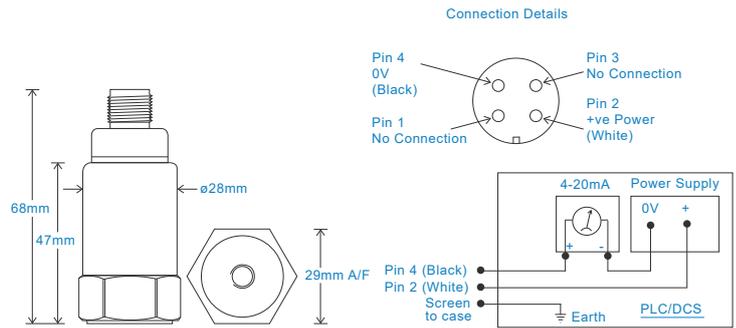
4-20mA velocity output via M12 Connector

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	150gms (nominal) body only
Screened Cable Assembly	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

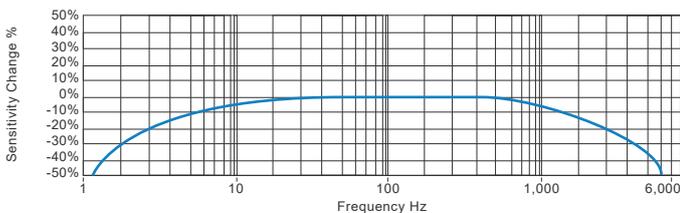
Electrical

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



www.hansfordsensors.com
sales@hansfordsensors.com



We reserve the right to alter the specification of this product without prior notice
TS029.9

