

HS-420 Accelerometer

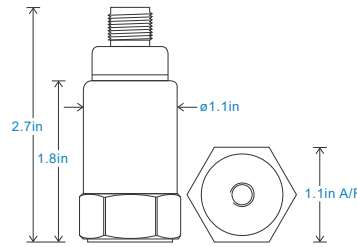
4-20mA velocity output via M12 Connector

Key Features

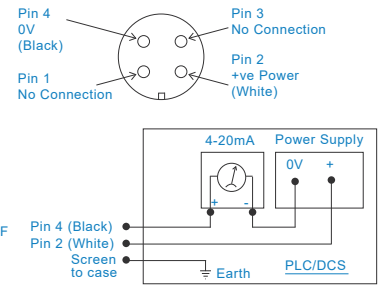
- For use with PLC/DCS systems
- Customizable features

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 72°F
Frequency Response	600cpm (10Hz) to 60kcpm (1kHz) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	50g peak
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Weight	5.2 oz. (nominal) body only
Shielded Cable Assembly	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

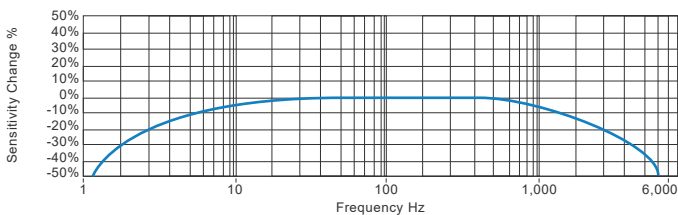
Electrical

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	-13 to 248°F
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

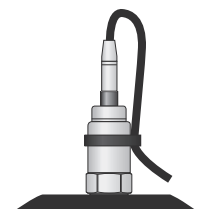
Typical Frequency Response



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	U - Imperial Range	012 - 1/2 IPS	01 - PUR	01 - 1/4-28" UNF Female							
I - Intrinsically Safe	UP - Imperial Peak Range	025 - 1 IPS	02 - Braided	02 - 1/4-28" UNF Male							
L - 316L Stainless Steel	UPP - Imperial Peak to Peak Range	050 - 2 IPS	07 - Silicon	05 - Quick Fit Female							
RT - Temperature Output PT100		050 - 2 IPS	08 - Flame Retardant	06 - M6 x 1mm Male							
S - 90° Side Exit		100 - 4 IPS	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
TS029U.5

