HS-420 Accelerometer

4-20mA velocity output via 2 Pin MS Connector

Key Features

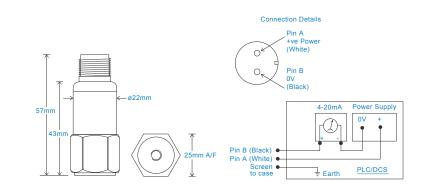
· For use with PLC/DCS systems

Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





Technical Performance Mechanical Mounted Base Resonance 5kHz min Case Material Velocity Ranges see: 'How To Order' table ±10% Sensing Element/Construction Nominal 80Hz at 22°C Mounting Torque Frequency Response 10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816 Weight Isolation Base isolated Screened Cable Asssembly Range 50g peak Connector Transverse Sensitivity Less than 5% Mounting Throads

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	100gms (nominal)
Screened Cable Asssembly	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

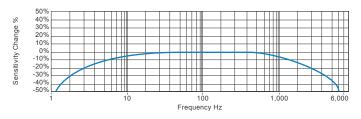
 Case Isolation
 >10⁸ Ohms at 500 Volts

Environmental

Operating Temperature Range Sealing Maximum Shock EMC

-25 to 120°C
IP68
5000g
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	X	
Extra Options (if required) F - Filtered I - Intrinsically Safe L - 316L Stainless Steel RT - Temperature Output P ⁻ S - 90° Side Exit T - Temperature Output	P - Peak Range PP - Peak to Peak Range				Velocity Range (RMS unless specified) 010 - 0-10 mm/sec 020 - 0-20 mm/sec 025 - 0-25 mm/sec 050 - 0-50 mm/sec 100 - 0-100 mm/sec			Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12			Mounting Threads 01 - ¼-28" UNF Ferr 02 - ¼-28" UNF Mal 05 - Quick Fit Fernal 06 - M6 x 1mm Male 08 - M8 x 1.25mm M 10 - M10 x 1.5mm M



www.hansfordsensors.com sales@hansfordsensors.com



We reserve the right to alter the specification of this product without prior notice TS008.11