HS-421 Accelerometer 4-20mA velocity and AC acceleration output via 3 Pin MS Connector

Connection Details **Key Features** Pin C AC (Red) Unique output Pin B 0V (Black) 0 · For use with PLC/DCS systems 0 \cap Pin A and data collectors +ve Pov (White) Customisable features -ø28mm Pin C (Red) 68m AC 0٧ Industries Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Pin B (Black) Pin A (White) Water, Pharmaceutical Scre to ca PLC/DCS ⊥ Earth

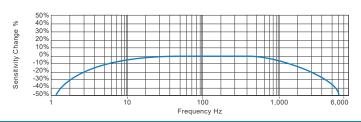
Technical Performance		N
Mounted Base Resonance	5kHz min	С
Velocity Ranges	see: 'How To Order' table ±10%	S
	Nominal 80Hz at 22°C	N
Frequency Response: 4-20mA	10Hz (600cpm) to 1kHz (60kcpm) ± 5%	V
	- ISO10816	S
Frequency Response: AC	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	С
	- ISO10816	
Isolation	Base isolated	N
Range	see: 'How To Order' table	
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	see: www.hansfordsensors.com for options
Connector	HS-AA005 - non-booted
	HS-AA068 or HS-AA069 - booted
Mounting Threads	see: 'How To Order' table

Electrical

Outputs	4-20mA DC current proportional to
	Range and AC acceleration
Bias Voltage	3 Volts DC (nominal)
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

Typical Frequency Response (4-20mA signal)



Applications

Environmental

Sealing Maximum Shock

EMC

Operating Temperature Range

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.)



-25 to 120°C

EN61326-1:2013

IP68

5000g

How To Order

Product Prefix HS - Hansford Sensors	Product Serie 421 - Industria	-	Sensor						
H S 4	2 1	X	X	X X	X	X	X	X	
Extra Options (if required F - Filtered L - 316L Stainless Steel RT - Temperature Output P S - 90° Side Exit T - Temperature Output	, P - Pea PP - Pea	ik Range ik to Peak ige	010 - 0- 020 - 0- 025 - 0- 050 - 0-	Range ess specifie 10 mm/sec 20 mm/sec 25 mm/sec 50 mm/sec 00 mm/sec	Sensiti d) 100mV 100mV 100mV 50mV 50mV	/g ±30 /g ±30 /g ±30 /g ±60	Og Og Og	Cable/Connector 01 - PUR 03 - Braided 07 - Silicon 15 - Flame Retardant 52 - 3 Pin MS 54 - M12	Mounting Threads 01 - ¼-28" UNF Female 02 - ¼-28" UNF Male 05 - Quick Fit Female 06 - M6 x 1mm Male 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 TS102.11

