

HS-423 Accelerometer

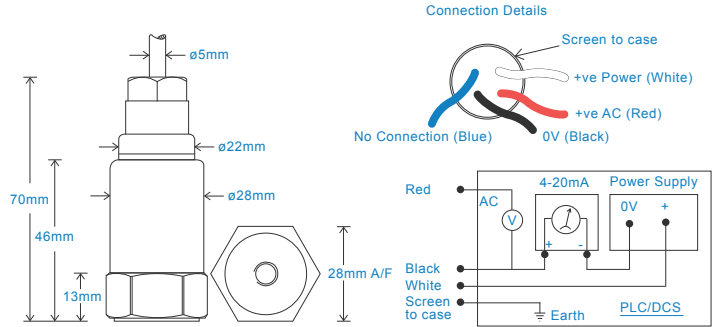
4-20mA acceleration and AC acceleration output via PUR Cable

Key Features

- Unique dual output
- For use with PLC/DCS systems and data collectors
- Waterproof and resistant to oil

Industries

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



Technical Performance

Mounted Base Resonance	10kHz min
Acceleration Ranges	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	10Hz (600cpm) to 5kHz (300kcpm) $\pm 5\%$ - ISO10816
Isolation	Base isolated
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	135gms (nominal)
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	100 metres max. (10 bar)

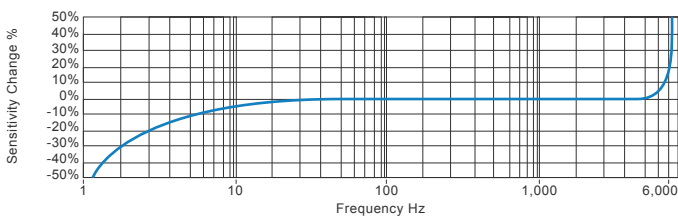
Electrical

Current Output	4-20mA DC current proportional to acceleration 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

Environmental

Operating Temperature Range	-25 to 90°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

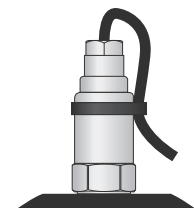
Typical Frequency Response



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 423 - Industrial Vibration Sensor	Cable Length (if integral cable) QXX - length specified in metres													
H	S	4	2	3	X	X	X	X	X	X	X	X	X	X	
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output						Acceleration Range (RMS unless specified) 001 - 0-1g 100mV/g $\pm 30g$ 002 - 0-2g 100mV/g $\pm 30g$ 005 - 0-5g 100mV/g $\pm 30g$ 010 - 0-10g 100mV/g $\pm 30g$ 100 - 0-100g 50mV/g $\pm 60g$			Sensitivity Range 001 - 0-1g 100mV/g $\pm 30g$ 002 - 0-2g 100mV/g $\pm 30g$ 005 - 0-5g 100mV/g $\pm 30g$ 010 - 0-10g 100mV/g $\pm 30g$ 100 - 0-100g 50mV/g $\pm 60g$			Cable/Connector 01 - PUR 03 - Braided 07 - Silicon 15 - Flame Retardant 52 - 3 Pin MS 54 - M12		Mounting Threads 01 - 1/4-28" UNF Female 02 - 1/4-28" UNF Male 05 - Quick Fit Female 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male	



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We reserve the right to alter the specification of this product without prior notice
TS183.5