

HS-420d Accelerometer

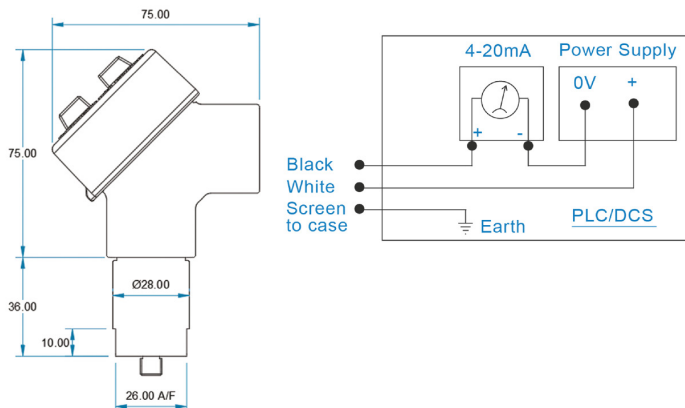
4-20mA Velocity output with Ex d Terminal Head

Key Features

- For use with Terminal Head
- Customizable 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	100g (nominal) body only
Cable Connections	Screw Terminals
Mounting Threads	see: 'How To Order' table
Terminal Head Cable Exit	M16

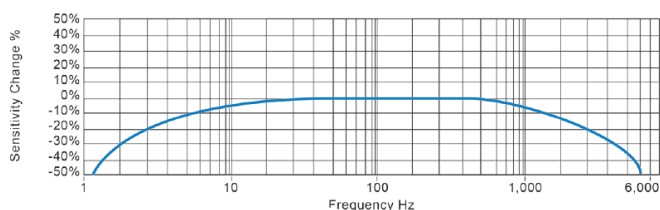
Electrical

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	See Certificate
EMC	EN61326-3-1:2017

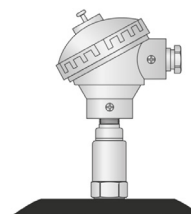
Typical Frequency Response



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.)



Certifications



www.hansfordsensors.com
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TS1461.5



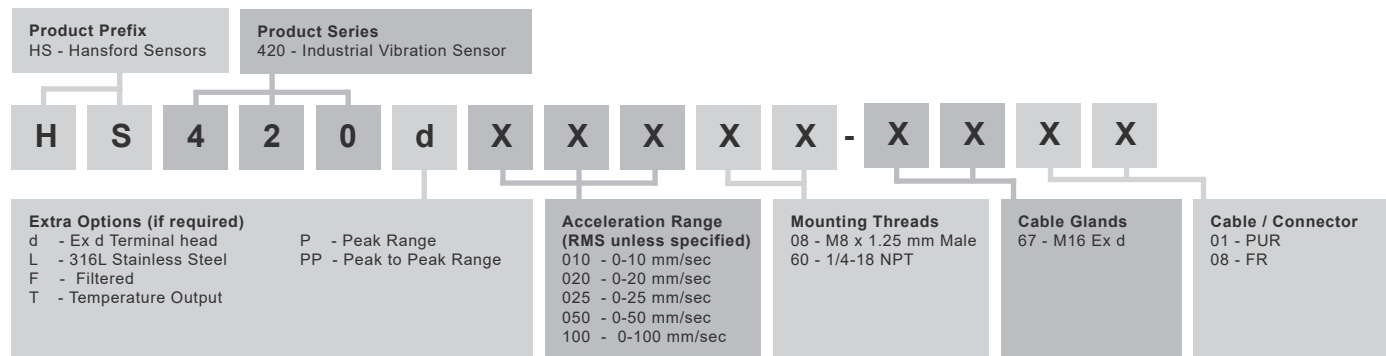
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Ex tb Requirements

Certificate number	ExVeritas 24ATEX1830X	Certified Temperature Range	Tamb -20 °C to +75/90/100 °C
Certificate details: Group II	EX II 2G Ex db IIC T6/5/4 Gb		
500V Isolation	Units Will Pass A 500V Isolation Test		
Standards Applied to Product	EN IEC 60079-0:2018 EN 60079-31:2014		
	IEC 60079-0 Edition 7 2017 IEC 60079-31:2023		

How To Order



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