

# HS-420d Accelerometer

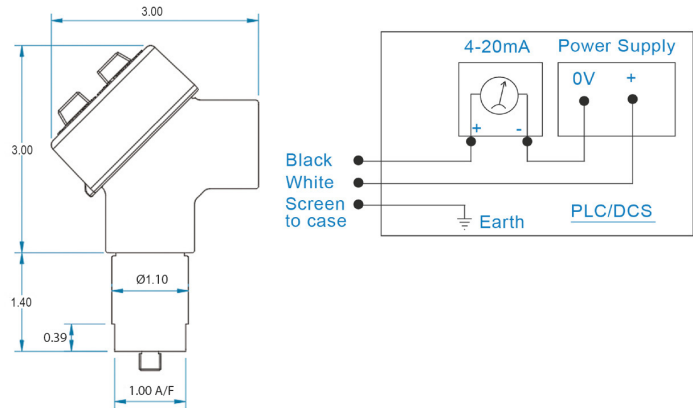
## 4-20mA Velocity output with Ex d Terminal Head

### 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	3.5 oz. (nominal) body only
Cable Connections	Screw Terminals
Mounting Threads	see: 'How To Order' table
Terminal Head Cable Exit	M16

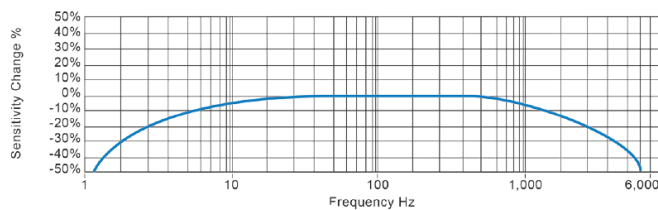
### Electrical

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
Sealing	IP68

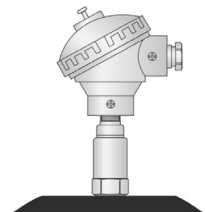
### Typical Frequency Response



### 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](http://www.hansfordsensors.com)  
[sales@hansfordsensors.com](mailto:sales@hansfordsensors.com)

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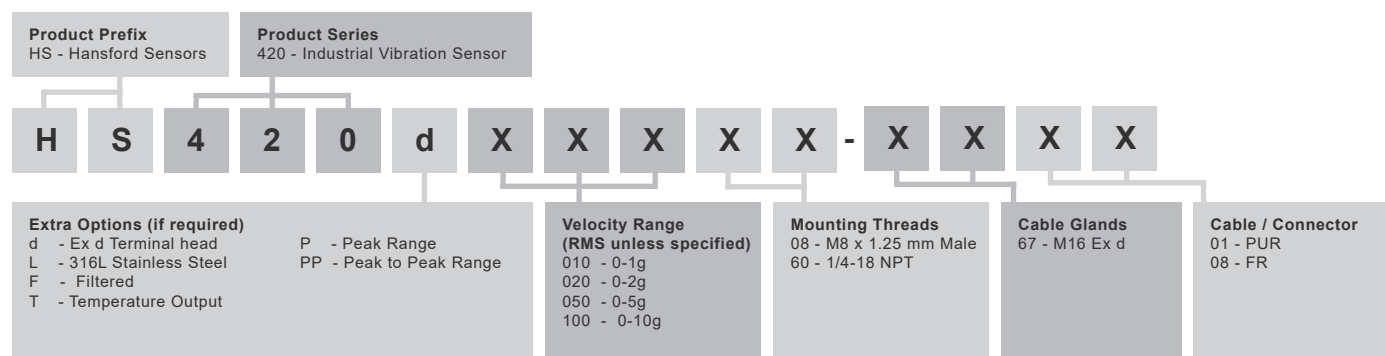
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## 4-20mA Velocity output with Ex d Terminal Head

### 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



### Certifications



[www.hansfordsensors.com](http://www.hansfordsensors.com)  
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