HS-421 Accelerometer

4-20mA velocity and AC acceleration output via Flame Retardant Cable

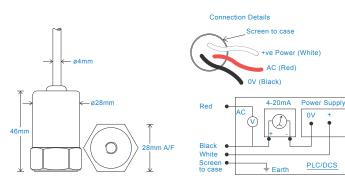
Key Features

- Unique output
- For use with PLC/DCS systems and data collectors
- Low smoke, halogen free cable

Industries

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





Technical Performance

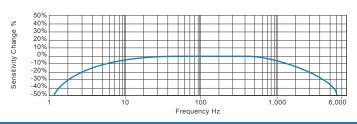
Mounted Base Resonal	nce	5kHz min
Velocity Ranges		see: 'How To Order' table ±10%
		Nominal 80Hz at 22°C
Frequency Response	10Hz (600cpm) to 7	1kHz (60kcpm) ± 5% - ISO10816
Isolation		Base isolated
Range		see: 'How To Order' table
Transverse Sensitivity		Less than 5%

Case Material		Stainless Steel
Sensing Element/Construction		PZT/Compression
Mounting Torque		8Nm
Weight		150gms (nominal)
Maximum Cable Length		1000 metres
Standard Cable Length		5 metres
Screened Cable	Flame Retardant -	- length to be specified with order
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



Environmental

Mechanical

Operating Temperature Range	-25 to 90°C
Sealing	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

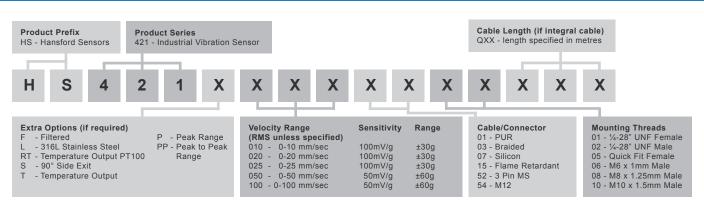
Applications

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





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We reserve the right to alter the specification of this product without prior notice TS185.7