HS-420 Series Vibration Sensor

M12 Connector, 4-20mA Velocity Transducer for PLC Interface



Typical Applications

Low cost online means of monitoring with the capability of interfacing direct into PLC, BMS or any 4-20mA input module.

Proven use in vibration monitoring for off-line applications using commercially available data collectors.

Protecting...

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyers, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.

Technical Performance

Mounted Base Resonance

Velocity Ranges

Frequency Response

Isolation

Measurement Range Transverse Sensitivity 5 kHz min.

0-10 to 0-100 mm/sec RMS ±10%

Nominal 80 Hz at 22°C

10 Hz to 1 kHz ±5 % - ISO10816

Base isolated 50 g peak Less than 5%

Electrical

Output Current 4-20 mA DC proportional to RMS velocity (mm/s) Supply Voltage

15 - 30 Volts DC (for 4-20 mA)

Settling Time 2 seconds

Output Impedance Loop Resistance 600 Ohms max. at 24 Volts

Case Isolation >108 Ohms at 500 Volts

Environmental

-25 to 90 °C Operating Temperature Range

IP67 Sealing Maximum Shock 5000 a

EN61000-6-4:2007 **Emissions** EN61000-6-2:2005 **Immunity**

Mechanical

Case Material Stainless Steel PZT/Compression Sensing Element/Construction

8 Nm **Mounting Torque**

150 gms (nom) Weight

M12 - Straight or Right Angle. Mating connector/Cable Assembly Requires screened cable assembly

See 'How to order' table Mounting Threads

Ranges, filters, mating cable assemblies, **Options**

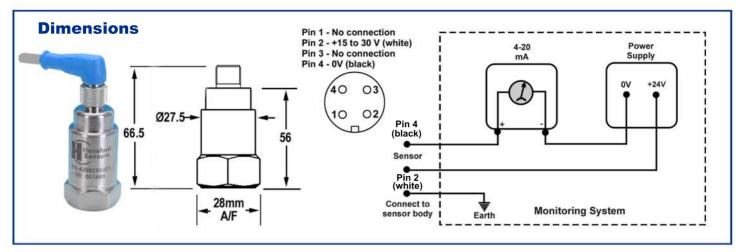
intrinsically safe,

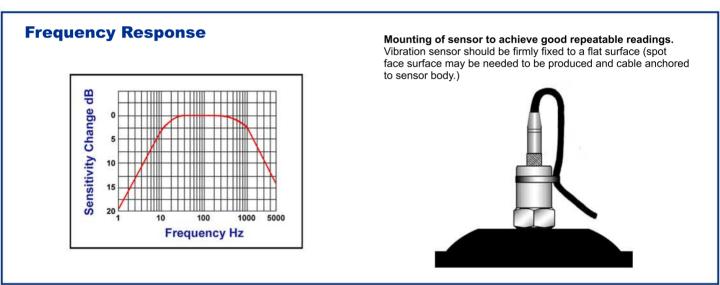


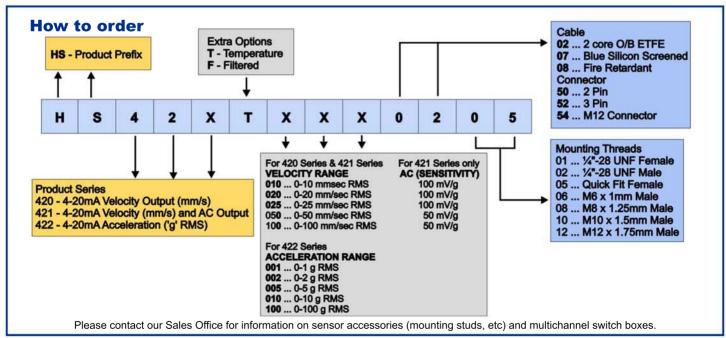
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We reserve the right to alter the specification of this product without prior notice.

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