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 offline 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 (5 ranges) 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 80 °C Operating Temperature Range

IP67 Sealing Maximum Shock 5000 a

EN61000-6-4:2001 **Emissions** EN61000-6-2:1999 **Immunity**

Mechanical

Stainless Steel Case Material Sensing Element/Construction PZT/Compression

8 Nm Mounting Torque

140 gms (nom) Weight

Mating connector

See 'How to order' table Mounting Threads Ranges, filters, mating cable, **Options**

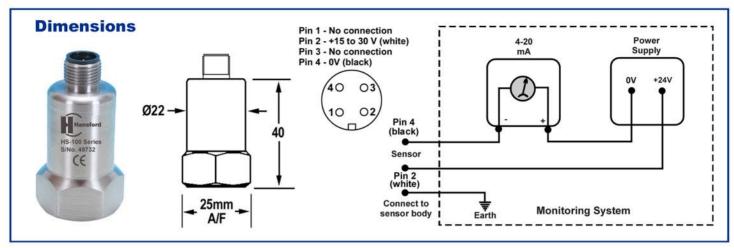
assemblies, high temperatures

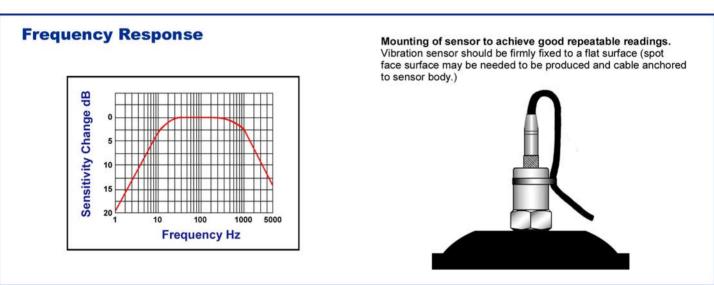


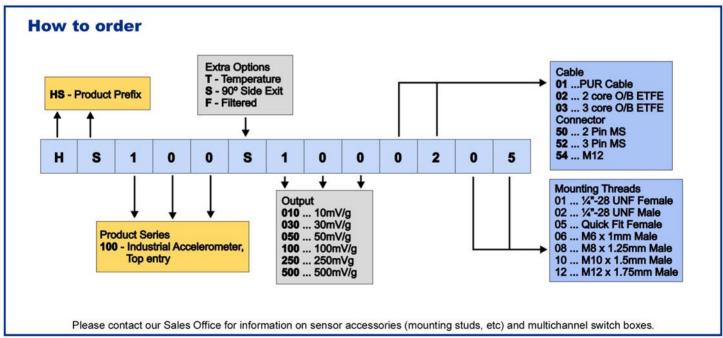
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M12 - Straight or Right Angle

HS-420 Series Vibration Sensor







TS029 lss01

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

Ref: HS420M12-0107



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