HS-100S Series Vibration Sensor

M12 Connector, Low Profile Industrial Accelerometer



Typical Applications

Proven use in vibration monitoring for offline applications using commercially available data collectors and online monitoring systems in the fields of Building Services, Civil Engineering, Paper and Pulp, Mining, Metals Manufacture, Utilities, Automotive, Water and Waste Treatment, Pharmaceutical, Aerospace, etc.

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

Sensitivity

Frequency Response

Isolation

Measurement Range

Transverse Sensitivity

22 kHz (nominal)

100 mV/g ±10% Nominal 80 Hz at 22 °C

2 Hz to 10 kHz ±5 % 0.8 Hz to 15 kHz ±3 dB

Base isolated

±80 a

Less than 5%

Electrical

Electrical Noise

Current Range

Bias Voltage

Settling Time

Output Impedance

Case Isolation

Output Settling Time

Output Impedance

Environmental

Operating Temperature Range -55 to 80 °C

Sealing IP67

Maximum Shock 5000 g

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

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Compression

Mounting Torque 81

Mounting Bolt provided M6 x 33 mm long, 1/4- 28 UNF x 33 mm long

or M8 x 33 mm long Weight 170 gms (nom)

Maximum Cable length 1000 metres

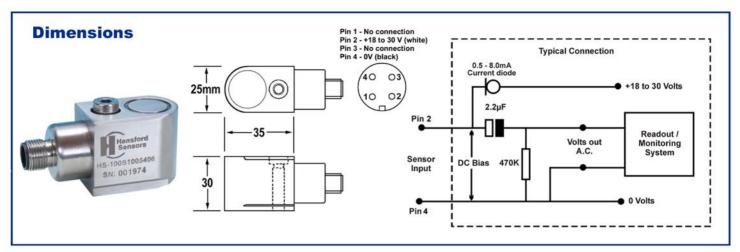
Mating Connector M12 - Straight or Right Angle
Mounting Threads See 'How to order' table
Options Mounting cable assemblies and

other sensitivities

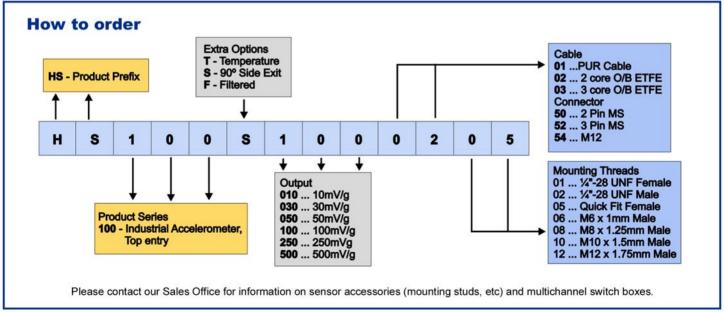


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Frequency Response Mounting of sensor to achieve good repeatable readings. Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored 40 Change to sensor body.) 30 20 10 0 Sensitivity -10 -20 -30 -40 -50 10,000 1000 100,000 Frequency Hz



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

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