HS-100S Series Vibration Sensor

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 0.1 mg max Current Range 0.5 mA to 8 mA Bias Voltage 10 - 12 Volts DC Settling Time 2 seconds Output Impedance 200 Ohms max. Case Isolation >108 Ohms at 500 Volts

Environmental

Operating Temperature Range -55 to 140 °C

Sealing **IP67** 5000 g Maximum Shock

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

Mechanical

Stainless Steel Case Material PZT/Compression Sensing Element/Construction

Mounting Torque

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

or M8 x 33 mm long 170 gms (nom) Weight 1000 metres Maximum Cable length

Mating Connector Mounting Threads See 'How to order' table

Mounting cable assemblies and **Options**

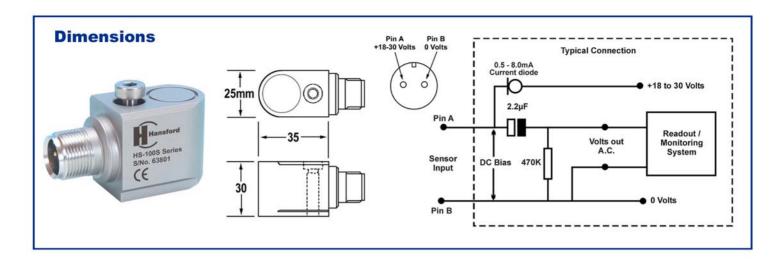
other sensitivities

HS-AA004

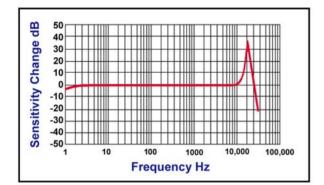


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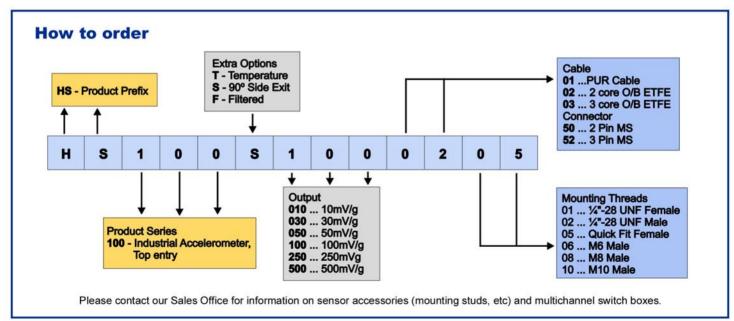


Frequency Response



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 to sensor body.)





TS002 Iss01

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

Ref: HS100S-0107



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