HS-100S Series Vibration Sensor

Low Profile Industrial Accelerometer - Submersible



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 q

Less than 5%

Electrical

Electrical Noise

Current Range

Bias Voltage

Settling Time

Output Impedance

Case Isolation

Output Settling

Output Impedance

Environmental

Operating Temperature Range -55 to 80 °C

Sealing IP68 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 8 N

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

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

Maximum Cable length 1000 metres

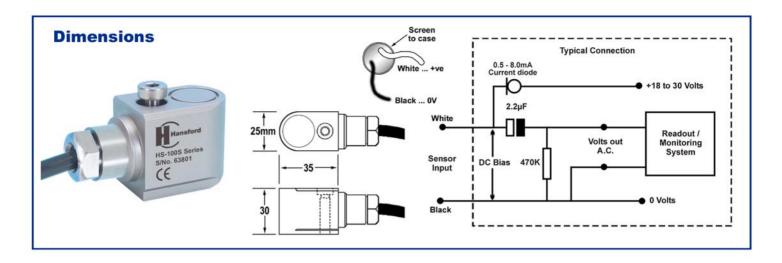
Cable Black Polyurethane - length to be specified with order Mounting Threads See 'How to order' table



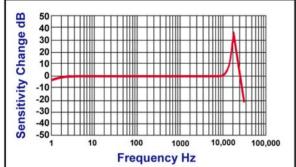


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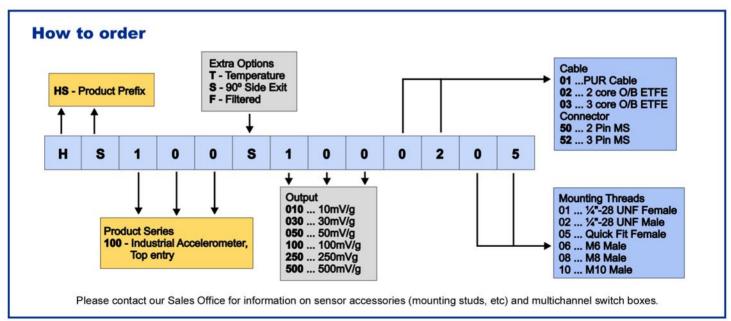


Frequency Response



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.)





TS011 Iss01

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

Ref: HS100S-SubC-0107



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