SR-LPS-420 Series Vibration Sensor

4-20mA Velocity Transducer for PLC Interface, MIL 2 pin connector



SALIENT FEATURES:

Low cost on-line 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.

SR-LPS-420 SENSOR will interface directly to your PLC, DCS or SCADA control system. The signal can be processed in the PLC, DCS and SCADA directly. These sensors provide 24/7 online protection for key plant machinery to reduce downtime.

VIBRATION AS A MACHINE CONDITION INDICATOR:

Machines seldom break down without warning; the signs of impending failure are usually present long before breakdown makes the machine unusable. Machine troubles are almost always characterised by an increase in vibration level which can be measured on some external surface of the machine and thus act as an indicator. Vibration monitoring plays vital role in plant maintenance to decide root cause of machine failure beforehand & this will lead to increased productivity & profitability.

PROTECTION OF...

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

CINE WILL

20 mm/s

S.N: 330882

Technical Performance

Mounted Base Resonance Velocity Ranges

Frequency Response Isolation

Measurement Range Transverse Sensitivity

Linear Accuracy (Measurement)

5 kHz min.

0-10/20/25/50/100 mm/sec RMS ±10 %

Nominal 80 Hz at 22 °c

2 - 2.5 kHZ ±5 % +SO10816

Base isolated 50 q Peak Less than 5%

±1%

Electrical

Output Current Supply Voltage Settling Time

Output Impedance Case Isolation

4-20 mA DC proportional to RMS velocity (mm/s)

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

olts 2 seconds

Loop Resistance 600 Ohms max. at 24 V

>108 Ohms at 500 Volts

Environmental

Operating Temperature Range Sealing

Maximum Shock

Emissions Immunity

-25 to 120 °C

IP 68 5000 g

EN61000 -6-4:2001

EN61000 -6-2:1999

Mechanical

Case Material

Sensing Element/Construction

Mounting Torque

Weight

Maximum Cable length

Mounting Threads

Standard Cable

Options

Stainless Steel PZT/Compression

8 Nm

135 gms (nom) 1000 metres

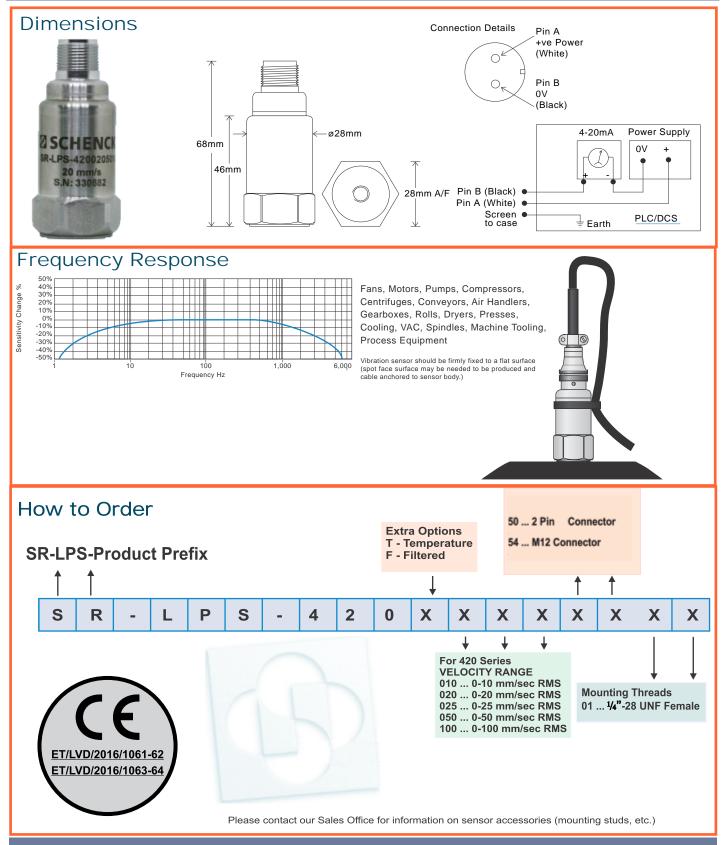
5 metres armoured ETFE See 'How to order' table Ranges, connector

Other cable lengths, intrinsically safe.

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