Bently Nevada 330505 Series Service Manual

330505-02-02-01

1. Description

Part Number: 330505-02-02-01

3. Product Information

Part Number: 330505-02-02-01

Model: Low Frequency Velocity Sensor

Manufacturer: Bently Nevada

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

Ordering Information

Model: 330505 - Low Frequency Velocity Sensor

Transducer Mounting Angle: -02 = 90° ± 5°

Internal Mounting Thread: -02 = 3/8-24 UNF-2B

Mounting Adapter Option: -0 1 = 1/2 - 20 UNF

Electrical

Sensitivity 20 mV/mm/s (508mV/in/s) ±10%

Frequency Response

0.5—1000 Hz (30—60,000 cpm) ±3.0 dB;

1—200 Hz (60—12,000 cpm) ±0.9 dB

Velocity Range 102 mm/s (4 in/s) peak

Amplitude Linearity

±3%—102 mm/s (4 in/s) peak

Output Bias Voltage

-12 ±1 VDC

Maximum Cable Length

305 metres (1000 feet) with no degradation of signal, when used with 3500/46M

Environmental Limits Operating and storage temperature range

Maximum mounted surface temperature

-40°C to +100°C (-40°F to +212°F)

Shock Survivability 981 m/s2 (100g) peak

Relative Humidity

To 100% non-submerged; case is hermetically sealed.

Weight < 375grams (13.2oz)

Case material 300 series stainless steel.

Connector 2-pin Mil-C-5015 receptacle, hermetically sealed, 300 series stainless steel.

Mounting Torque

46 kg cm (40 in-lb) max.

Polarity Pin A becomes positive with respect to Pin B when the applied velocity is from the base to the top of the transducer.