

Bently Nevada 21504&21505&21508&21747 Series Service Manual

21500-00-24-05-02

1. Description

Part Number: 21500-00-24-05-02

3. Product Information

Part Number: 21500-00-24-05-02

Model: Probe Proximity Vibration

Manufacturer: Bently Nevada

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

Ordering Information

Model 21504 7200 Proximity Transducer Systems

Unthreaded Length Option 00 0 mm

Overall Case Length Option 24= 2.4 in

Total Length Option 05 = 0.5 metre (20 inches). Tolerance: +.13 metre,-.05 metre (+5 inches,-2 inches).

Connector Option 02 With miniature male coaxial connector

TIP CONSTRUCTION

PART NO 21500-

DIAMETER 5 mm

CASE

CONFIGURATION

TYPE Standard

THREADS 1/4-28

LEAD ARMOR No

INPUT

Power: -17.5 Vdc to -26 Vdc at 12 mA maximum consumption.

OUTPUT

Calibrated Range: 80 mils (2.0 mm). Begins at approximately 10 mils (0.25 mm) from probe face.

Scale Factor: 200 mV/mil (7.87 V/mm), $\pm 4\%$ (measured in increments of 10 mils over the calibrated range) if calibrated as a system, Within $\pm 9.5\%$ including interchangeability errors. Linearity: Within 0.8 mils (0.02 mm) of a 200 mV/mil straight line if calibrated as a system. Within 2.3 mils (0.06 mm) of a 200 mV/mil straight line including interchangeability errors. Frequency Response: 0 to 10 kHz (0 to 600,000 cpm); -5% at 10 kHz (600,000 cpm).

Temperature Sensitivity: Typically -396 change in scale factor at + 150°F (+ 65°C) at 50 mils gap (1.27 mm).

ENVIRONMENTAL LIMITS

Operating Temperature:

Proximity: -60°F to +212°F (-51°C to +100°C).

Probe and Extension Cable: -30°F to 0 to +350°F (-34°C to +177°C) Relative Humidity: To 95%, noncondensing.

Corrosion Resistance (for 8 mm probe only): Probe operation is not affected by direct contact to the following: air, water, lube oil, ammonium hydroxide, sulfuric acid (10%), MEK (methyl-ethyl ketone) or DMF (Dimethylformamide).

System Weight: 1.3 lbs. (0.59 kg)

