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

21504-00-40-50-02

## 1. Description

Part Number:21504-00-40-50-02

## 3. Product Information

Part Number:21504-00-40-50-02

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 00mm

Overall Case Length Option 40  4.0 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 21504-

DIAMETER 8 mm

CASE

CONFIGURATIONTYPE Standard

THREADS 3/8-24

LEAD ARMOR No

INPUT

Power: -17.5 Vde to -26 Vdc at 12 mAmaximum 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),±4%(measured in increments of10 mils over the calibrated range) ifcalibrated as a system, Within ±9.5%including interchangeability errors.Linearity: Within 0,8 mils (0.02 mm) of a200 mV/mil straight line if calibrated asa system. Within 2.3 mils (0.06 mm) ofa 200 mV/mil straight line includinginterchangeability errors.Frequency Response: 0 to 10 kHz(0 to 600,000 cpm); -5% at 10 kHz(600,000 cpm).

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

ENVIRONMENTAL LIMITS

Operating Temperature:

Proximitor:-60°F to +212°F(-51°Cto +1009C).

Probe and Extension Cable: -30°F to0+350°F(-34°Cto +177°C)Relative Humidity: To 95%,noncondensing.

Corrosion Resistance (for 8 mm probesonly): Probe operation is not affectedby direct contact to the following: air,water, lube oil, ammonium hydroxide,sulfuric acid (10%), MEK(methyl-ethylkeytone)or DMF (Dimethylfor-mamide).

System Weight: 1.3 lbs.(0.59 kg)