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

21504-16-28-10-02

## 1. Description

Part Number: 21504-16-28-10-02

## 3. Product Information

Part Number: 21504-16-28-10-02

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 16 160 mm

Overall Case Length Option 28 2.8 in

Total Length Option 10 1.0 metre (39 inches) Tolerance: +.25 metre,-.10 metre(+ 10 inches,-4 inches).

Connector Option 02 With miniature male coaxial connector

TIP CONSTRUCTION

PART NO 21504-

DIAMETER 8 mm

CASE Standard

CONFIGURATIONTYPE 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)