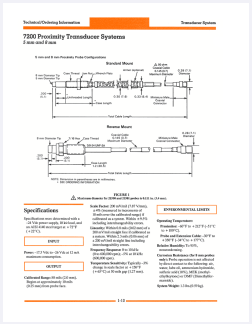
FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Bently Nevada BA21504-00-08-10-02

7200 Proximity Probe



PRODUCT	BA21504-00-08-10-02
FAMILY	7200 Proximity System
FUNCTION	7200 Proximity Probe
STATUS	Verify exact configuration

Prepared by Amikon Limited from Bently Nevada 7200 technical data. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Transducer Series	7200 proximity
Probe Tip Diameter	8 mm
Case Thread	3/8-24 UNF
Lead Armor	None
Unthreaded Length	0.0 in
Overall Case Length	0.8 in
Total Cable Length	1.0 m

02 MOUNTING AND CONNECTION

- Confirm the complete BA21504-00-08-10-02 probe order code, 5 mm tip, thread, case length, cable length and connector option.
- Install the standard-mount probe perpendicular to the conductive target without loading the probe case or cable.
- Mate the miniature coaxial connector finger-tight and preserve the documented 5 m or 9 m calibrated system length.
- Set the initial probe gap near 1.27 mm and secure the cable against movement, abrasion and connector strain.
- Verify linear output across the required 2.0 mm calibrated range before returning the monitored channel to service.

03 MANUFACTURER INSTALLATION REFERENCE

Official manufacturer reference reproduced from Bently Nevada 7200 technical data. Use the current source document and all referenced drawings and notes for installation.

7200 Proximity Transducer Systems

5 mm and 8 mm

5 mm and 8 mm Proximity Probe Configurations

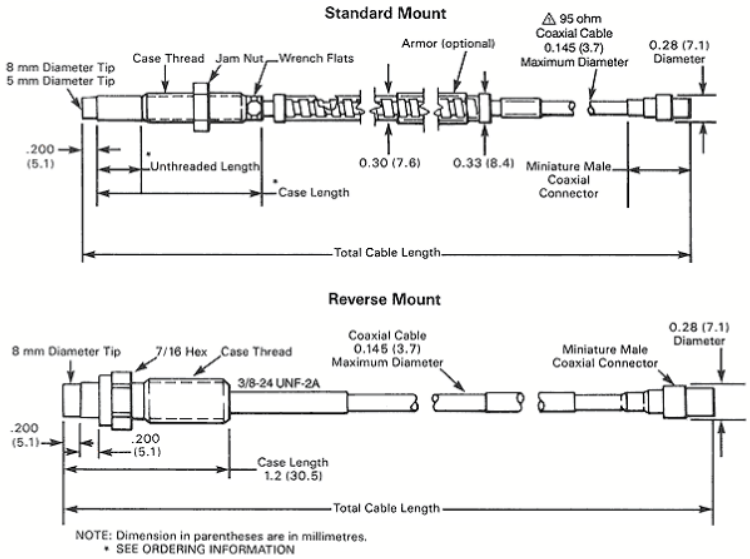


FIGURE 1

⚠ Maximum diameter for 21500 and 21501 probes is 0.111 in. (3.4 mm).

Specifications

Specifications were determined with a –24 Vdc power supply, 10 kΩ load, and an AISI 4140 steel target at +72°F (+22°C).

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), ±4% (measured in increments of 10 mils over the calibrated range) if calibrated as a system. Within ±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 –3% change 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°C to +100°C).

Probe and Extension Cable: –30°F to +350°F (–34°C to +177°C).

Relative Humidity: To 95%, noncondensing.

Corrosion Resistance (for 8 mm probes only): Probe operation is not affected by 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).

04 CABLE ROUTING AND CONNECTION

- Install the standard-mount probe perpendicular to the conductive target without loading the probe case or cable.
- Mate the miniature coaxial connector finger-tight and preserve the documented 5 m or 9 m calibrated system length.
- Set the initial probe gap near 1.27 mm and secure the cable against movement, abrasion and connector strain.
- Verify linear output across the required 2.0 mm calibrated range before returning the monitored channel to service.

05 INITIAL SYSTEM CHECKS

- Confirm exact model identity and compatible system components before energizing.
- Check the saved configuration against the controlled site requirements.
- Verify the measurement or signal path using the complete manufacturer instructions.
- Record the installed model, baseline values and final channel status.

06 CONTROLLED DOCUMENTS

Official source	Bently Nevada 7200 technical data
Product record	BA21504-00-08-10-02
Manufacturer	Bently Nevada
Support	INFO@AMIKON.CN