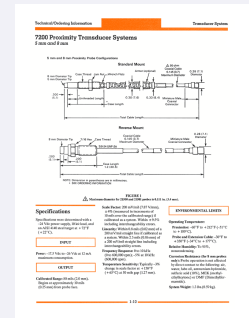


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

21500-00-32-10-00

five millimeter proximity probe



PRODUCT	21500-00-32-10-00
FAMILY	7200 proximity transducer systems
FUNCTION	five millimeter proximity probe
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from 7200 Proximity Transducer Systems documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

Probe Tip Diameter	5 mm
Case Thread	1/4-28 UNF
Lead Armor	None
Unthreaded Length	0.0 in
Overall Case Length	3.2 in
Total Cable Length	1.0 m

02 PREPARATION AND CONNECTION

- Confirm the complete 21500-00-32-10-00 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

Technical/Ordering Information

Transducer System

7200 Proximity Transducer Systems

5 mm and 8 mm

5 mm and 8 mm Proximity Probe Configurations

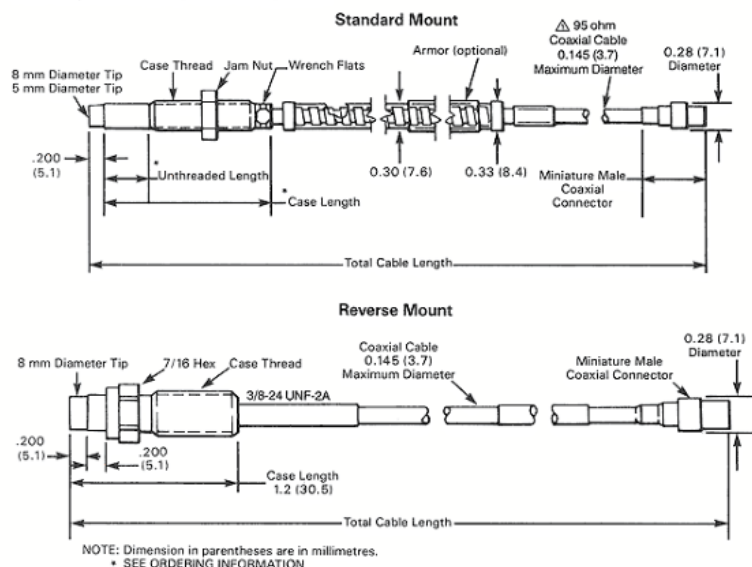


FIGURE 1
 Δ Maximum diameter for 21500 and 21501 probes is 0.111 in. (3.4 mm).

Specifications

Specifications were determined with a -24 Vdc power supply, 10 k Ω 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), $\pm 4\%$ (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 -3% change in scale factor at +150°F (+65°C) at 50 mils gap (1.27 mm).

ENVIRONMENTAL LIMITS

Operating Temperature:

Proximitors: -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-ethylketone) or DMF (Dimethylformamide).

System Weight: 1.3 lbs. (0.59 kg).

04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	Bently Nevada official manufacturer documentation
Product record	21500-00-32-10-00
Manufacturer	7200 Proximity Transducer Systems
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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