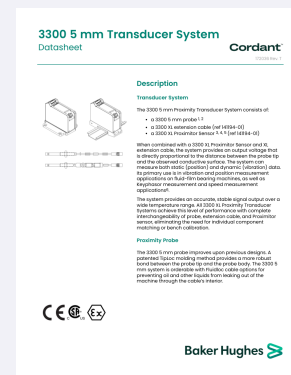


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Bently Nevada 330171-00-33-50-01-05

3300 5 mm Proximity Probe



PRODUCT	330171-00-33-50-01-05
FAMILY	3300 5 mm Proximity Transducer System
FUNCTION	3300 5 mm Proximity Probe
STATUS	Verify exact configuration

Prepared by Amikon Limited from Bently Nevada 3300 5 mm Transducer System Datasheet 172036 Rev. T. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Product model	330171-00-33-50-01-05
Product designation	330171 3300 5 mm probe, 1/4-28 UNF, without armor
Unthreaded length option	0.0 in (0 mm)
Overall case length option	3.3 in (83.8 mm)
Total length option	5.0 m (16.4 ft)
Connector option	Miniature coaxial ClickLoc connector with connector protector, standard cable
Agency approval option	Multiple Approvals

02 MOUNTING AND CONNECTION

- Verify the complete 330171-00-33-50-01-05 order code and decode every AA-BB-CC-DD-EE option before work begins.
- Confirm the 0.0-inch unthreaded length, 3.3-inch case length, 5.0-meter total length, connector protector, standard cable, and multiple-approvals option.
- Prepare a 1/4-28 mounting thread, limit thread engagement to 0.375 in, and tighten the probe case to 5.1 N m recommended without exceeding 7.3 N m.
- Maintain a minimum 25.4 mm cable bend radius and protect the non-armored FEP-insulated cable from abrasion, sharp edges, oil paths, and excessive strain.
- Join the ClickLoc connector finger-tight until it clicks, install the connector protector, and route the cable separately from interference sources.

3300 5 mm Transducer System

Datasheet

Cordant™

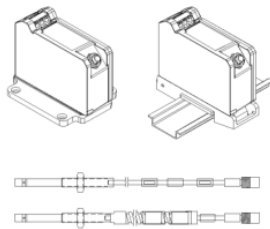
172036 Rev. T

Description

Transducer System

The 3300 5 mm Proximity Transducer System consists of:

- a 3300 5 mm probe ^{1, 2}
- a 3300 XL extension cable (ref 141194-01)
- a 3300 XL Proximity Sensor ^{3, 4, 5} (ref 141194-01)



When combined with a 3300 XL Proximity Sensor and XL extension cable, the system provides an output voltage that is directly proportional to the distance between the probe tip and the observed conductive surface. The system can measure both static (position) and dynamic (vibration) data. Its primary use is in vibration and position measurement applications on fluid-film bearing machines, as well as Keyphasor measurement and speed measurement applications⁶.

The system provides an accurate, stable signal output over a wide temperature range. All 3300 XL Proximity Transducer Systems achieve this level of performance with complete interchangeability of probe, extension cable, and Proximity sensor, eliminating the need for individual component matching or bench calibration.

Proximity Probe

The 3300 5 mm probe improves upon previous designs. A patented TipLoc molding method provides a more robust bond between the probe tip and the probe body. The 3300 5 mm system is orderable with Fluidloc cable options for preventing oil and other liquids from leaking out of the machine through the cable's interior.


Baker Hughes 

Official manufacturer reference reproduced from Bently Nevada 3300 5 mm Transducer System Datasheet 172036 Rev. T. Use the current source document and all referenced drawings and notes for installation.

04

CABLE ROUTING AND CONNECTION

- Confirm the 0.0-inch unthreaded length, 3.3-inch case length, 5.0-meter total length, connector protector, standard cable, and multiple-approvals option.
- Prepare a 1/4-28 mounting thread, limit thread engagement to 0.375 in, and tighten the probe case to 5.1 N m recommended without exceeding 7.3 N m.
- Maintain a minimum 25.4 mm cable bend radius and protect the non-armored FEP-insulated cable from abrasion, sharp edges, oil paths, and excessive strain.
- Join the ClickLoc connector finger-tight until it clicks, install the connector protector, and route the cable separately from interference sources.
- Set the initial probe gap near 1.27 mm, verify polarity and system length, then confirm stable position, vibration, phase, or speed response before return to service.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Confirm normal indications and fault-contact state after commissioning.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Bently Nevada 3300 5 mm Transducer System Datasheet 172036 Rev. T
Product record	330171-00-33-50-01-05
Manufacturer	Bently Nevada
Support	INFO@AMIKON.CN