

330173-00-05-10-12-00

3300 5 mm Metric Proximity Probe

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 330173-00-05-10-12-00 is a M8 x 1 unarmored 3300 5 mm metric proximity probe with a 1.0 m lead and Miniature coaxial FluidLoc connection. It senses shaft-to-bearing relative displacement in a matched proximity transducer system.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Bently Nevada article.

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Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm the complete 330173-00-05-10-12-00 marking, M8 x 1 thread and 50 mm case execution.
- 2

Place the monitored machine and associated protection channel in the approved maintenance state.
- 3

Protect the 5.2 mm probe tip and keep the mounting thread free from burrs and contamination.
- 4

Route the 1.0 m unarmored probe lead without sharp bends, crushing or tensile loading.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	330173-00-05-10-12-00
Host / carrier	Bently Nevada 3300 5 mm Proximity Transducer System
Primary system role	Detects shaft-to-bearing relative movement without mechanical contact
Acceptance boundary	Prove polarity, static position, dynamic response and alarm action before returning the channel to service.
Source record	3300 5 mm Proximity Transducer System Datasheet

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Install 330173-00-05-10-12-00 only in the documented Bently Nevada 3300 5 mm Proximity Transducer System arrangement and record the exact connection and configuration before removal. Restore the approved settings, then verify diagnostics and functional response before release.

- 1

Keep the Miniature coaxial FluidLoc connection clean, dry and finger-tight.
- 2

Confirm the installed extension cable and Proximitor Sensor match the approved total system length.
- 3

Set the static gap within the documented linear region while maintaining target clearance.
- 4

Prove polarity, static position, dynamic response and alarm action before returning the channel to service.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm the complete 330173-00-05-10-12-00 marking, installed host, hardware execution, terminals or connectors, wiring, grounding, configuration, accessories and controlled commissioning results.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	330173-00-05-10-12-00
Host match	Bently Nevada 3300 5 mm Proximity Transducer System
Connection proof	Confirm the installed extension cable and Proximitor Sensor match the approved total system length.
Configuration proof	Set the static gap within the documented linear region while maintaining target clearance.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Prove polarity, static position, dynamic response and alarm action before returning the channel to service.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

Radial shaft-vibration measurement

Measures shaft motion relative to the bearing housing in a matched proximity loop.

Axial position monitoring

Provides the field sensing point for a documented thrust-position channel.

Machine shaft centerline observation

Supplies slow-roll and static-position information for the configured monitor.

Probe replacement in a matched loop

Restores the exact mechanical and cable execution without changing system identity.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
330101-00-08-05-02-05	8 mm probe	View 330101-00-08-05-02-05 page
330101-00-20-20-02-CN	8 mm probe	View 330101-00-20-20-02-CN page
330103-00-04-10-02-00	metric probe	View 330103-00-04-10-02-00 page
330103-00-12-10-01-00	metric probe	View 330103-00-12-10-01-00 page
330104-00-04-10-02-05	armored probe	View 330104-00-04-10-02-05 page
330104-00-12-10-02-00	armored probe	View 330104-00-12-10-02-00 page
330104-03-06-10-02-00	armored probe	View 330104-03-06-10-02-00 page
330104-06-12-10-02-00	armored probe	View 330104-06-12-10-02-00 page

MANUFACTURER SOURCE RECORD

3300 5 mm Proximity Transducer System Datasheet
Baker Hughes document 172036 Rev. T

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