

330851-02-000-050-10-00-05

3300 XL 25 mm Proximity Probe

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 330851-02-000-050-10-00-05 is the documented 3300 XL 25 mm proximity probe for a matched differential-expansion transducer loop.

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 Bently Nevada 330851-02-000-050-10-00-05 marking and installed position.
- 2

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

Isolate the circuit and apply ESD-safe handling controls.
- 4

Record connectors, terminals, cable route, shielding and grounding.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	330851-02-000-050-10-00-05
Host / carrier	Bently Nevada 3300 XL 25 mm Proximity Transducer System
Primary system role	Exact article identity: Bently Nevada 330851-02-000-050-10-00-05
Acceptance boundary	Complete a controlled response and alarm test before service release.
Source record	3300 XL 25 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

Preserve the documented case, lead, connector and mounting arrangement. Match the extension cable and Proximity Sensor, then verify gap and controlled differential-expansion response.

- 1

Verify the documented host, hardware execution and technical values.
- 2

Restore the approved interfaces and channel configuration.
- 3

Review bias, channel and monitor diagnostics after energization.
- 4

Complete a controlled response and alarm test before service release.

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 330851-02-000-050-10-00-05, host identity, hardware execution, interfaces, wiring, shielding, grounding, configuration, accessories and controlled functional-test results before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	330851-02-000-050-10-00-05
Host match	Bently Nevada 3300 XL 25 mm Proximity Transducer System
Connection proof	Restore the approved interfaces and channel configuration.
Configuration proof	Review bias, channel and monitor diagnostics after energization.

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

Complete a controlled response and alarm test before service release.

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

ACCEPTANCE AND RELEASE EVIDENCE

Steam-turbine differential expansion

Tracks the difference between rotor growth and casing growth on mid-size to large turbine generators.

Redundant collar observation

Supports two probes observing the same collar face for redundant differential-expansion measurement.

Complementary-input measurement

Supports probes on opposite collar faces to extend the measurable differential-expansion range.

Ramp-based compensated measurement

Supports an engineered ramp arrangement with a second probe used to compensate for radial movement.

Maintenance Verification and Closeout

Steam-turbine differential expansion

Tracks the difference between rotor growth and casing growth on mid-size to large turbine generators.

Redundant collar observation

Supports two probes observing the same collar face for redundant differential-expansion measurement.

Complementary-input measurement

Supports probes on opposite collar faces to extend the measurable differential-expansion range.

Ramp-based compensated measurement

Supports an engineered ramp arrangement with a second probe used to compensate for radial movement.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
Bently Nevada 330730-040-00-00	Bently Nevada product	View Bently Nevada 330730-040-00-00 page
Bently Nevada 330173-00-05-10-12-00	Bently Nevada product	View Bently Nevada 330173-00-05-10-12-00 page
Bently Nevada 330854-080-25-00	Bently Nevada product	View Bently Nevada 330854-080-25-00 page
Bently Nevada 330105-02-12-15-12-CN	Bently Nevada product	View Bently Nevada 330105-02-12-15-12-CN page
Bently Nevada 330101-00-19-10-02-00	Bently Nevada product	View Bently Nevada 330101-00-19-10-02-00 page
Bently Nevada 330104-10-20-05-02-00	Bently Nevada product	View Bently Nevada 330104-10-20-05-02-00 page
Bently Nevada 330104-01-05-10-02-00	Bently Nevada product	View Bently Nevada 330104-01-05-10-02-00 page
Bently Nevada 330101-20-36-10-02-00	Bently Nevada product	View Bently Nevada 330101-20-36-10-02-00 page

MANUFACTURER SOURCE RECORD

3300 XL 25 mm Proximity Transducer System Datasheet
163236 Rev. M

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