

# 330851-04-000-015-10-01-05

## 3300 XL 25 mm Proximity Probe

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 330851-04-000-015-10-01-05 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 330851-04-000-015-10-01-05 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 | 330851-04-000-015-10-01-05                                            |
| Host / carrier           | Bently Nevada 3300 XL 25 mm Proximity Transducer System               |
| Primary system role      | Exact article identity: Bently Nevada 330851-04-000-015-10-01-05      |
| 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 Proximitor 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 330851-04-000-015-10-01-05, 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            | 330851-04-000-015-10-01-05                                       |
| 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<br>330101-04-28-10-02-00 | Bently Nevada product | <a href="#">View Bently Nevada 330101-04-28-10-02-00 page</a> |
| Bently Nevada 330877-080-37-05         | Bently Nevada product | <a href="#">View Bently Nevada 330877-080-37-05 page</a>      |
| Bently Nevada<br>330195-02-12-05-05    | Bently Nevada product | <a href="#">View Bently Nevada 330195-02-12-05-05 page</a>    |
| Bently Nevada<br>330702-00-25-10-02-00 | Bently Nevada product | <a href="#">View Bently Nevada 330702-00-25-10-02-00 page</a> |
| Bently Nevada<br>330172-00-20-90-01-05 | Bently Nevada product | <a href="#">View Bently Nevada 330172-00-20-90-01-05 page</a> |
| Bently Nevada<br>330192-00-68-05-05    | Bently Nevada product | <a href="#">View Bently Nevada 330192-00-68-05-05 page</a>    |
| Bently Nevada<br>330905-00-25-05-12-CN | Bently Nevada product | <a href="#">View Bently Nevada 330905-00-25-05-12-CN page</a> |
| Bently Nevada<br>330104-05-10-50-02-05 | Bently Nevada product | <a href="#">View Bently Nevada 330104-05-10-50-02-05 page</a> |

## MANUFACTURER SOURCE RECORD

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

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