

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

3300 XL 25 mm Proximity Probe

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.

BRAND	Bently Nevada	FAMILY	Bently Nevada 3300 XL 25 mm Proximity Transducer System
PART	330851-04-000-015-10-01-05	SYSTEM ROLE	Exact article identity: Bently Nevada 330851-04-000-015-10-01-05

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330851-04-000-015-10-01
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MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

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.

FUNCTION 1

Exact article identity: Bently Nevada 330851-04-000-015-10-01-05

FUNCTION 2

Documented component: 3300 XL 25 mm Proximity Probe

FUNCTION 3

Installed family: Bently Nevada 3300 XL 25 mm Proximity Transducer System

FUNCTION 4

Controlled replacement and verification workflow

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 3300 XL 25 mm Proximity Transducer System
Primary interface	Exact article identity: Bently Nevada 330851-04-000-015-10-01-05
Engineering context	Use 330851-04-000-015-10-01-05 only with the documented Bently Nevada host system and matched interfaces. Preserve the as-found configuration during replacement and commissioning.
Commissioning duty	Complete a controlled response and alarm test before service release.

TECHNICAL NOTE

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

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Complete order number	330851-04-000-015-10-01-05	Armor option	Stainless-steel armor
Probe case type	1.06 in smooth side-exit case	Approval option	Multiple approvals
Mounting interface	Smooth side exit	Probe tip material	PEEK
Unthreaded length	0.0 in	Probe case material	AISI 304 stainless steel
Overall case length	1.5 in	Probe cable	75 ohm triaxial PFA-insulated FluidLoc cable
Total probe length	1.0 m		

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MODEL	SYSTEM ROLE	APTER POWER PAGE
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ENGINEERING BOUNDARY

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.

Applications and Precautions

Common Applications

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.

Product Precautions

- 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.
- 5

Verify the documented host, hardware execution and technical values.
- 6

Restore the approved interfaces and channel configuration.
- 7

Review bias, channel and monitor diagnostics after energization.
- 8

Complete a controlled response and alarm test before service release.

IMPORTANT NOTICE

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.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	330851-04-000-015-10-01-05
Configuration	Review bias, channel and monitor diagnostics after energization.
Functional release	Complete a controlled response and alarm test before service release.

Engineer FAQ

Q1 How is the 1.06 in side-exit case of Bently Nevada 330851-04-000-015-10-01-05 oriented at installation?

Match the complete 330851-04-000-015-10-01-05 marking to the 3300 XL 25 mm probe, extension cable and Proximito Sensor records before work.

Q3 How should the stainless-steel armor on Bently Nevada 330851-04-000-015-10-01-05 be terminated and supported?

Use the documented collar or ramp arrangement and maintain probe alignment perpendicular to the observed target.

Q5 How is the side-exit lead kept within its minimum bend radius for Bently Nevada 330851-04-000-015-10-01-05?

Protect the FluidLoc cable, high-temperature ClickLoc connector and stainless-steel armor from contamination, sharp bends and tensile loading.

Q7 How are front and rear sealing features protected on Bently Nevada 330851-04-000-015-10-01-05?

Match the 1.0 m probe execution to the approved extension cable and 3300 XL 25 mm Proximito Sensor system length; retain the exact multiple approvals identity.

Q2 What does the 1.5 in case length require from the bracket used with Bently Nevada 330851-04-000-015-10-01-05?

Record the mounting position, 1.06 in smooth side-exit case, target geometry, lead route, connector position, shielding and current static reading.

Q4 Which multiple-approval marking confirms the selected Bently Nevada 330851-04-000-015-10-01-05 execution?

The probe is rated -35 to +200 deg C continuously and up to +250 deg C for less than 24 hours.

Q6 What sliding-bracket movement verifies the linear response of Bently Nevada 330851-04-000-015-10-01-05?

Move the approved sliding bracket through a controlled distance, confirm gap voltage and verify response across the required linear region.

Q8 Which acceptance measurements are retained after installing Bently Nevada 330851-04-000-015-10-01-05?

Retain the full article check, as-left gap, static position, controlled movement response, channel diagnostics and alarm verification record.

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