

330851-000-070-10-00-05

3300 XL 25 mm Proximity Probe

Bently Nevada 330851-000-070-10-00-05 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	330851-000-070-10-00-05	SYSTEM ROLE	Exact article identity: Bently Nevada 330851-000-070-10-00-05

APTER POWER SALES
TEAM

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+86 180 3023 5313
EMAIL sales13@apterp
ower.com
WEBSITE
www.apterpower.com



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MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

Bently Nevada 330851-000-070-10-00-05 is the documented 3300 XL 25 mm proximity probe for a matched differential-expansion transducer loop.

FUNCTION 1

Exact article identity: Bently Nevada 330851-000-070-10-00-05

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 330851-000-070-10-00-05
Engineering context	Use 330851-000-070-10-00-05 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
Product family	3300 XL 25 mm Proximity Probe	Short-term probe temperature	+250 deg C maximum for less than 24 hours
Supplied article string	330851-000-070-10-00-05	Minimum cable bend radius	25.4 mm (1.0 in)
Probe tip material	PEEK	Probe-case to lead tensile strength	330 N (75 lb)
Probe case material	AISI 304 stainless steel	Matched-system linear range	12.7 mm (500 mils)
Probe cable	75 ohm triaxial PFA-insulated FluidLoc cable	Matched-system scale factor	0.787 V/mm (20 mV/mil) nominal
Continuous probe temperature	-35 to +200 deg C		

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MODEL	SYSTEM ROLE	APTER POWER PAGE
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Bently Nevada 330106-05-30-10-02-00	Bently Nevada product	View Bently Nevada 330106-05-30-10-02-00 page
Bently Nevada 330104-01-05-50-02-00	Bently Nevada product	View Bently Nevada 330104-01-05-50-02-00 page
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ENGINEERING BOUNDARY

Confirm 330851-000-070-10-00-05, 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.

Complementary-input measurement

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

Redundant collar observation

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

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 330851-000-070-10-00-05 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.
- 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 330851-000-070-10-00-05, host identity, hardware execution, interfaces, wiring, shielding, grounding, configuration, accessories and controlled functional-test results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	330851-000-070-10-00-05
Configuration	Review bias, channel and monitor diagnostics after energization.
Functional release	Complete a controlled response and alarm test before service release.

Engineer FAQ

Q1 Which 3300 XL 25 mm system components must be matched to Bently Nevada 330851-000-070-10-00-05?

Match the complete 330851-000-070-10-00-05 marking to the 3300 XL 25 mm probe, extension cable and Proximitor Sensor records before work.

Q3 What target geometry supports differential-expansion use of Bently Nevada 330851-000-070-10-00-05?

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

Q5 How are the FluidLoc lead and ClickLoc connector of Bently Nevada 330851-000-070-10-00-05 protected?

Protect the FluidLoc cable, high-temperature ClickLoc connector and documented cable construction from contamination, sharp bends and tensile loading.

Q7 Why must a legacy 7200 system be replaced as a complete loop when fitting Bently Nevada 330851-000-070-10-00-05?

Match the documented probe lead probe execution to the approved extension cable and 3300 XL 25 mm Proximitor Sensor system length; retain the exact documented article execution identity.

Q2 How should the installed location for Bently Nevada 330851-000-070-10-00-05 be documented before removal?

Record the mounting position, documented installed case, target geometry, lead route, connector position, shielding and current static reading.

Q4 Which temperature limits govern Bently Nevada 330851-000-070-10-00-05 at the probe location?

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

Q6 What field checks establish the static position for Bently Nevada 330851-000-070-10-00-05?

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

Q8 What test evidence releases Bently Nevada 330851-000-070-10-00-05 to turbine service?

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

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