

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3300 XL 25 mm Proximity Transducer System
Part number	330851-000-070-10-00-05
Product role	Exact article identity: Bently Nevada 330851-000-070-10-00-05
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

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

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WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



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Technical Specifications

Technical values below are limited to the named Bently Nevada product record and directly applicable manufacturer documentation.

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

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Bently Nevada 3300 XL 25 mm Proximity Transducer System
Primary system role	Exact article identity: Bently Nevada 330851-000-070-10-00-05
Connection boundary	Preserve the documented case, lead, connector and mounting arrangement. Match the extension cable and Proximitor Sensor, then verify gap and controlled differential-expansion response.
Controlled acceptance duty	Steam-turbine differential expansion

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.

Pre-Installation Checks

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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	330851-000-070-10-00-05
Installed host	Bently Nevada 3300 XL 25 mm Proximity Transducer System
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

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

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Bently Nevada 3300 XL 25 mm Proximity Transducer System
2	330851-000-070-10-00-05
3	Steam-turbine differential expansion
4	Preserve the documented case, lead, connector and mounting arrangement. Match the extension cable and Proximitor Sensor, then verify gap and controlled differential-expansion response.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 3300 XL 25 mm Proximity Transducer System
Interface role	Exact article identity: Bently Nevada 330851-000-070-10-00-05
Field / power 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 evidence	Complete a controlled response and alarm test before service release.

Installation and Connection Checks

- 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.

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

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.

TECHNICAL NOTE

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

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	330851-000-070-10-00-05 recorded
Host / carrier	Bently Nevada 3300 XL 25 mm Proximity Transducer System
Physical interface	Exact article identity: Bently Nevada 330851-000-070-10-00-05
Configuration	Review bias, channel and monitor diagnostics after energization.
Functional proof	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.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	330851-000-070-10-00-05
Approved role	Steam-turbine differential expansion
Final validation	Complete a controlled response and alarm test before service release.

Engineering 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.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330173-00-06-10-02-00	Bently Nevada product	View Bently Nevada 330173-00-06-10-02-00 page
Bently Nevada 330780-91-05	Bently Nevada product	View Bently Nevada 330780-91-05 page
Bently Nevada 330709-000-050-10-12-05	Bently Nevada product	View Bently Nevada 330709-000-050-10-12-05 page
Bently Nevada 330706-005-046-10-02-00	Bently Nevada product	View Bently Nevada 330706-005-046-10-02-00 page
Bently Nevada 330704-0-50-10-02-05	Bently Nevada product	View Bently Nevada 330704-0-50-10-02-05 page
Bently Nevada 330500-07-00	Bently Nevada product	View Bently Nevada 330500-07-00 page
Bently Nevada 330705-02-18-10-02-00	Bently Nevada product	View Bently Nevada 330705-02-18-10-02-00 page
Bently Nevada 330701-00-10-10-02-00	Bently Nevada product	View Bently Nevada 330701-00-10-10-02-00 page

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