

APTER POWER PRODUCT MANUAL

330851-04-00-27-10-01-00

3300 XL 25 mm side-exit proximity probe

The 330851-04-00-27-10-01-00 is supplied as a Bently Nevada 3300 XL 25 mm proximity probe marking. Official Datasheet 163236 identifies 330851 as the 25 mm probe family and case option 04 as a smooth 1.06 in diameter side-exit case; the remaining shortened groups are retained exactly as supplied and are not normalized.

In a complete 3300 XL 25 mm system, the probe senses distance to a conductive turbine collar or ramp. The matched extension cable and 3300 XL 25 mm Proximator Sensor convert that gap into a voltage used for differential-expansion monitoring on mid-size and large steam turbine generators.

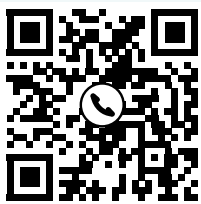
Manufacturer	Bently Nevada
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Side-exit geometry. Differential-expansion focus.

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SCAN FOR PRODUCT & QUOTE
330851-04-00-27-10-01-00

1. Product Overview and Identity

The 330851-04-00-27-10-01-00 is supplied as a Bently Nevada 3300 XL 25 mm proximity probe marking. Official Datasheet 163236 identifies 330851 as the 25 mm probe family and case option 04 as a smooth 1.06 in diameter side-exit case; the remaining shortened groups are retained exactly as supplied and are not normalized.

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Model Configuration

Code	Officially supported interpretation
330851	3300 XL 25 mm proximity probe family
04	Smooth 1.06 in diameter side-exit case option
00 / 27	Supplied shortened fields; exact dimensions not decoded from the current order table
10 / 01 / 00	Retained exactly as supplied; verify against nameplate and legacy drawing

Key Features

- Officially identified 330851 25 mm probe family
- Side-exit smooth case option verified from the official order table
- FluidLoc construction supports demanding turbine environments
- Exact legacy-style marking preserved without silent normalization

2. Technical Specifications

Only Bently Nevada-published family or exact-part information is stated. Nonstandard, placeholder, legacy-style, or MOD-controlled fields are identified rather than inferred.

Parameter	Verified value or limitation
Product Type	3300 XL 25 mm proximity probe
Verified Case Family	Smooth 1.06 in diameter side-exit, option 04
Matched-System Linear Range	12.7 mm (500 mil)
Nominal Average Scale Factor	0.787 V/mm (20 mV/mil)
Recommended Minimum Flat Target	61 mm (2.4 in) diameter
Probe Cable	75 ohm triaxial PFA-insulated FluidLoc cable
Probe Tip Material	PEEK
Probe Case Material	AISI 304 stainless steel
Minimum Cable Bend Radius	25.4 mm (1.0 in)
Probe Operating Temperature	-35 C to +200 C
Short-Term Probe Temperature	+250 C maximum for less than 24 hours
Exact Supplied-Code Dimensions and Mass	Not confirmed by the current official order syntax

Configuration-Control Note

The current official order format is 330851-AA-BBB-CCC-DD-EE-FF. The supplied 00 and 27 groups are shorter than the current three-character B and C fields, so their dimensional meaning is not inferred.

3. Functions, Applications and Components

Core Functions

- Measures rotor-to-stator differential expansion through a matched eddy-current system
- Observes a turbine collar or ramp without mechanical contact
- Feeds a gap-proportional voltage to the monitoring channel through matched components
- Supports single, redundant, or complementary differential-expansion arrangements

Application Areas

Application	System role
Steam Turbine Differential Expansion	Tracks relative axial growth between the rotor and casing
Collar Measurement	Observes one or both sides of a suitable collar
Ramp Measurement	Supports longer differential-expansion measurement arrangements
High-Temperature Turbine Areas	Uses the 25 mm family FluidLoc and high-temperature construction

Compatible Components

- 3300 XL 25 mm extension cable selected so total system length matches the sensor
- 3300 XL 25 mm Proximitior Sensor for the selected total system length
- 3300 XL sliding bracket and applicable probe adapter where required
- Bently Nevada AISI 4140 target or an officially calibrated alternative target

Lifecycle Status

Baker Hughes publishes Datasheet 163236 Rev. M for the 3300 XL 25 mm family. The exact supplied legacy-style grouping must be confirmed from the physical nameplate or applicable legacy/MOD drawing.

4. Installation Precautions

- Do not reinterpret the shortened 00 and 27 groups as current three-character dimensional codes without evidence
- Replace the probe, extension cable, and Proximito Sensor together when migrating from older 25 mm systems
- Set alignment and gap using the official sliding-bracket or machine procedure
- Protect ClickLoc connectors from contamination and observe the 25.4 mm minimum bend radius
- Verify approval markings and the physical case geometry before installation

STOP - Verify before installation

The current official order format is 330851-AA-BBB-CCC-DD-EE-FF. The supplied 00 and 27 groups are shorter than the current three-character B and C fields, so their dimensional meaning is not inferred.

Use the physical nameplate and current Bently Nevada documentation as the controlling records.

5. Official Source and Use Notice

Official source

Baker Hughes / Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet 163236 Rev. M

Apter Power product page

<https://www.apterpower.com/Bently-Nevada/330851-04-00-27-10-01-00>

Use Notice

This original Apter Power reference is prepared from the named Bently Nevada source. It is not a manufacturer publication and does not replace the official datasheet, physical nameplate, certificate, MOD or legacy drawing, installation instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.