

330851-04-000-030-10-01-05

3300 XL 25 mm Proximity Probe

Bently Nevada 330851-04-000-030-10-01-05 is a smooth side-exit 3300 XL 25 mm proximity probe. It measures large shaft or rotor position changes for a matched transducer system and monitor channel.

Manufacturer	Bently Nevada
Product family	3300 XL 25 mm Proximity Transducer System
Part number	330851-04-000-030-10-01-05
Country of origin	USA
Source	3300 XL 25 mm Proximity Transducer System Datasheet — 163236 Rev. M

Product role

- 1

Measures large-range shaft position with a 25 mm eddy-current probe
- 2

Provides a side-exit lead for the smooth probe body
- 3

Operates with a matched 3300 XL 25 mm extension cable and Proximitor Sensor
- 4

Supports applications requiring a 12.7 mm linear range

Document purpose

Technical review	Model identity and manufacturer-published values
Installation review	Mounting, connection and companion-hardware checks
Commissioning review	Controlled signal, diagnostic and functional response

APTER POWER SALES TEAM

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



330851-04-000-030-10-01-05

1. Technical specifications

The following values are transcribed only from the manufacturer records named in this document.

Probe execution	Smooth 1.06 in diameter, side exit
Unthreaded length	0.0 in
Overall case length	3.0 in
Total probe length	1.0 m
Mechanical protection	Stainless-steel armor
Agency approval option	05
Linear range	12.7 mm
Linear range limits	0.63 to 13.33 mm
Approximate output range	-2.5 to -11.5 Vdc
Average scale factor	0.787 V/mm
Frequency response	0 to 2.7 kHz, +0/-3 dB
Minimum target diameter	61 mm
Probe DC resistance	6.2 +/-0.5 Ohm
Probe tip material	PEEK
Case material	AISI 304 stainless steel
Cable	75 Ohm PFA FluidLoc
Armor	AISI 302 stainless steel with PFA jacket
Minimum bend radius	25.4 mm
Operating temperature	-35 to +200 degC
Short-term probe temperature	+250 degC maximum for less than 24 h
Maximum connector torque	0.565 N m

Configuration identity checks

Complete model	330851-04-000-030-10-01-05
Manufacturer part	330851-04-000-030-10-01-05
Installed family	3300 XL 25 mm Proximity Transducer System
Record authority	163236 Rev. M

2. System function and integration

Bently Nevada 330851-04-000-030-10-01-05 is a smooth side-exit 3300 XL 25 mm proximity probe. It measures large shaft or rotor position changes for a matched transducer system and monitor channel.

Compatible installation elements

Component 1	3300 XL 25 mm Proximitors Sensor
Component 2	matched 25 mm extension cable
Component 3	61 mm or larger steel target
Component 4	compatible position-monitoring input

Engineered application matrix

Steam-turbine differential expansion	Measures large-range shaft position with a 25 mm eddy-current probe
Large-shaft axial position	Provides a side-exit lead for the smooth probe body
Rotor movement observation	Operates with a matched 3300 XL 25 mm extension cable and Proximitors Sensor
High-temperature proximity measurement	Supports applications requiring a 12.7 mm linear range

Related products on Apter Power

330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	Open product page
330103-00-12-10-02-00	3300 XL 8 mm metric probe	Open product page
330103-00-16-10-02-05	3300 XL 8 mm approved probe	Open product page
330130-045-00-00	3300 XL extension cable	Open product page

3. Installation and commissioning controls

Support and align the smooth side-exit body so the 1 m FluidLoc lead is not loaded, then set gap within the 12.7 mm linear region and verify the matched 25 mm loop before commissioning.

- 1

Verify the full 330851-04-000-030-10-01-05 configuration before installation.
- 2

Place the machine and connected position channel in the approved maintenance state.
- 3

Protect the PEEK tip and smooth body from impact or clamp damage.
- 4

Maintain the minimum bend radius in the armored side-exit lead.
- 5

Use clean finger-tight connector assembly and do not exceed the connector torque limit.
- 6

Match probe, extension cable and Proximitor Sensor as one 25 mm system.
- 7

Set operating gap across the expected full mechanical travel.
- 8

Prove direction, scale and alarm action before returning the measurement to service.

Acceptance record

Identity	330851-04-000-030-10-01-05 recorded
Mounting / connection	3300 XL 25 mm Proximitor Sensor
Companion hardware	matched 25 mm extension cable
Functional duty	Steam-turbine differential expansion
As-left evidence	Connections, diagnostics and controlled response recorded

Return-to-service sequence

1	Confirm physical security and connector condition
2	Restore the documented channel or system configuration
3	Observe stable diagnostics before applying a controlled test
4	Record the final process response and release authorization

4. Engineer FAQ and source record

How should wiring or cabling for 330851-04-000-030-10-01-05 be recorded?	Record conductor identity, shield termination, connector orientation, cable route and the as-found diagnostic state before disconnecting 330851-04-000-030-10-01-05.
What installation control is important for 330851-04-000-030-10-01-05?	Use the model-specific mounting arrangement, protect mating surfaces and maintain the documented cable support and mechanical clearance for 330851-04-000-030-10-01-05.
How is 330851-04-000-030-10-01-05 checked during commissioning?	Apply the approved controlled test for steam-turbine differential expansion, verify polarity or direction where applicable, and compare the measured response with the configured channel.
Can parameters from a similar model be used for 330851-04-000-030-10-01-05?	No. Retain only values and configuration details that apply directly to the complete 330851-04-000-030-10-01-05 ordering code and installed system.
What maintenance evidence should be retained for 330851-04-000-030-10-01-05?	Retain the full 330851-04-000-030-10-01-05 identity, as-left mounting and connections, continuity or bias checks, diagnostics and the final functional-test result.
What should be verified before returning 330851-04-000-030-10-01-05 to service?	Confirm secure mounting, connector integrity, restored configuration, stable signal behavior and the intended response of the associated monitoring channel.
What must be matched before replacing 330851-04-000-030-10-01-05?	Match the complete 330851-04-000-030-10-01-05 marking, 3300 xl 25 mm proximity probe, installed mounting or connector execution and the approved equipment record before removal.
Which system components should be checked with 330851-04-000-030-10-01-05?	Confirm the installed 3300 XL 25 mm Proximitor Sensor, matched 25 mm extension cable and the assigned monitoring or connection point are the documented combination for 330851-04-000-030-10-01-05.

Manufacturer source identifiers

Document title	3300 XL 25 mm Proximity Transducer System Datasheet
Publication / revision	163236 Rev. M
Manufacturer	Bently Nevada / Baker Hughes

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com



330851-04-000-030-10-01-05