

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.

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

Manufacturer	Bently Nevada
Product name	3300 XL 25 mm Proximity Probe
Product family	3300 XL 25 mm Proximity Transducer System
Part number	330851-04-000-030-10-01-05
Country of origin	USA

Core system roles

- 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

Engineering note

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. Technical data

Official manufacturer values for the complete product record are arranged below for engineering review.

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 verification

Complete model	330851-04-000-030-10-01-05
Official product family	3300 XL 25 mm Proximity Transducer System
Primary source	3300 XL 25 mm Proximity Transducer System Datasheet — 163236 Rev. M
Installation record	Physical marking and installed interfaces retained

2. Functions, components and applications

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

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 Proximity Sensor
High-temperature proximity measurement	Supports applications requiring a 12.7 mm linear range

Related Apter Power product pages

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

Integration statement

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.

3. Precautions and return-to-service evidence

- 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.

Commissioning evidence matrix

Identity	Full 330851-04-000-030-10-01-05 marking confirmed
Installed component	3300 XL 25 mm Proximitor Sensor
Paired hardware	matched 25 mm extension cable
Primary duty	Steam-turbine differential expansion
Functional test	Measures large-range shaft position with a 25 mm eddy-current probe
Release record	Diagnostics and as-left response retained

Steam-turbine differential expansion	Verify the measures large-range shaft position with a 25 mm eddy-current probe response under controlled conditions
Large-shaft axial position	Verify the provides a side-exit lead for the smooth probe body response under controlled conditions
Rotor movement observation	Verify the operates with a matched 3300 xl 25 mm extension cable and proximitor sensor response under controlled conditions
High-temperature proximity measurement	Verify the supports applications requiring a 12.7 mm linear range response under controlled conditions

4. Engineer FAQ and controlled 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 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 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.	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.
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.	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.
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.	Which system components should be checked with 330851-04-000-030-10-01-05?	Confirm the installed 3300 XL 25 mm Proximity 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.

Source identifiers

Manufacturer	Bently Nevada / Baker Hughes
Official document	3300 XL 25 mm Proximity Transducer System Datasheet
Publication / revision	163236 Rev. M
Applied product	330851-04-000-030-10-01-05