

APTER POWER

COMPLETE PRODUCT INFORMATION

330851-01-000-020-10-00-00

3300 XL 25 mm 1 1/4-12 threaded proximity probe

Large-range non-contact eddy-current displacement signal

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 25 mm Proximity Transducer System

PART

330851-01-000-020-10-00-00

ORIGIN / HS

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APTER POWER SALES TEAM

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PRODUCT OVERVIEW

Large-range non-contact eddy-current displacement signal

1

Uses the documented 1 1/4-12 threaded case

2

Provides a 2.0 in case with a one-metre lead

3

Uses a PEEK sensing tip for the large target range

4

Forms the probe element of a matched 25 mm measurement system

SYSTEM COMPONENTS

3300 XL 25 mm Proximator Sensor

matched 25 mm extension cable

61 mm or larger steel target

compatible displacement monitor

TECHNICAL NOTE

Confirm the 1 1/4-12 threaded case, 2.0 in length, one-metre FluidLoc lead and complete five- or nine-metre matched system before setting the operating gap.

TECHNICAL DATA

PARAMETER	VALUE
Probe model	330851
Probe case	1 1/4-12 threaded
Unthreaded length	0
Overall case length	2.0 in
Total probe length	1.0 m (3.3 ft)
Armor	No
Agency approval option	Not required
Probe tip material	PEEK

PARAMETER	VALUE
Probe case material	AISI 304 stainless steel
Probe cable	75 Ohm PFA FluidLoc
Probe operating temperature	-35 to +200 degC
Short-term probe temperature	+250 degC maximum for less than 24 h
Power without barriers	-17.5 to -26 V DC; 12 mA maximum
Power with barriers	-23 to -26 V DC
Supply sensitivity	<2 mV/V
Output resistance	50 Ohm

ENGINEERING NOTE

Confirm the 1 1/4-12 threaded case, 2.0 in length, one-metre FluidLoc lead and complete five- or nine-metre matched system before setting the operating gap.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330101-20-36-10-02-00	Related Bently Nevada product	View 330101-20-36-10-02-00 page
330709-000-130-10-02-00	Related Bently Nevada product	View 330709-000-130-10-02-00 page
330354-040-24-05	Related Bently Nevada product	View 330354-040-24-05 page
3500-15-129486-01	Related Bently Nevada product	View 3500-15-129486-01 page
330103-00-06-10-02-CN	Related Bently Nevada product	View 330103-00-06-10-02-CN page
330101-30-63-15-02-CN	Related Bently Nevada product	View 330101-30-63-15-02-CN page
26363-30	Related Bently Nevada product	View 26363-30 page
3300-12-02-20-00	Related Bently Nevada product	View 3300-12-02-20-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Steam-turbine differential expansion

Uses the documented 1 1/4-12 threaded case

Large-shaft axial position

Provides a 2.0 in case with a one-metre lead

Rotor travel observation

Uses a PEEK sensing tip for the large target range

25 mm probe-loop replacement

Forms the probe element of a matched 25 mm measurement system

PRODUCT PRECAUTIONS

- 1 Verify the complete 330851-01-000-020-10-00-00 marking and 1 1/4-12 threaded execution before work.
- 2 Place the monitored machine and protection channel in the approved maintenance state.
- 3 Protect the sensing tip, threads and mounting surface from impact, burrs and contamination.
- 4 Route and support the 1.0 m lead without sharp bends, crushing, tensile load or contact with moving parts.
- 5 Keep coaxial connector faces clean, dry and mechanically unloaded during handling.
- 6 Confirm the matched 3300 XL 25 mm electronics, total system length and target material before setting gap.
- 7 Preserve the documented probe separation and cable shielding arrangement during installation.
- 8 Prove gap voltage, polarity, dynamic response and alarm action before returning the channel to service.

ENGINEER FAQ

Q1 Does 330851-01-000-020-10-00-00 match 3300 XL 25 mm Proximity Sensor in a Steam-turbine differential expansion installation?

Verify the complete 330851-01-000-020-10-00-00 marking, the documented 3300 XL 25 mm Proximity Transducer System position and the installed 3300 XL 25 mm Proximity Sensor before fitting the assembly.

Q3 Which 3300 XL 25 mm Proximity Transducer System records should be captured before removing 330851-01-000-020-10-00-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330851-01-000-020-10-00-00 before disconnection.

Q5 Which matched 25 mm extension cable condition should be checked when 330851-01-000-020-10-00-00 reports an abnormal state?

Check the matched 25 mm extension cable supply, seating and connection first, then compare channel diagnostics with the recorded 330851-01-000-020-10-00-00 baseline.

Q7 What maintenance evidence is required after 330851-01-000-020-10-00-00 is used for Rotor travel observation?

Retain the nameplate record, corrective action, final diagnostics and a controlled rotor travel observation functional-test result for 330851-01-000-020-10-00-00.

Q2 How should 330851-01-000-020-10-00-00 be wired when it must uses the documented 1 1/4-12 threaded case?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330851-01-000-020-10-00-00; then continuity-test the affected path.

Q4 What controlled test confirms that 330851-01-000-020-10-00-00 can provides a 2.0 in case with a one-metre lead?

Apply the approved field or simulated stimulus, observe the 3300 XL 25 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 330851-01-000-020-10-00-00 be moved directly into Large-shaft axial position without validating compatible displacement monitor?

No. Confirm the compatible displacement monitor, revision, connection scheme and 3300 XL 25 mm Proximity Transducer System configuration before transferring 330851-01-000-020-10-00-00 to that duty.

Q8 How should 330851-01-000-020-10-00-00 be returned to service in 25 mm probe-loop replacement?

Restore power under control, verify uses a peek sensing tip for the large target range, exercise the intended signal path and release 330851-01-000-020-10-00-00 only after the 3300 XL 25 mm Proximity Transducer System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet | 163236 Rev. M

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