

APTER POWER

COMPLETE PRODUCT INFORMATION

330876-03-10-00-00

3300 XL 50 mm smooth 1.99 in diameter side-exit proximity probe

Large-range non-contact eddy-current displacement signal

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 50 mm Proximity Transducer System

PART

330876-03-10-00-00

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

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PRODUCT OVERVIEW

Large-range non-contact eddy-current displacement signal

1

Uses the documented smooth 1.99 in diameter side-exit body

2

Carries the signal over a 1.0 m (3.3 ft) FluidLoc lead

3

Provides the large-range 50 mm sensing interface

4

Operates only as part of a matched 3300 XL 50 mm system

SYSTEM COMPONENTS

3300 XL 50 mm Proximator Sensor

matched extension cable when required

102 mm or larger steel target

compatible displacement monitor

TECHNICAL NOTE

Confirm the smooth 1.99 in diameter side-exit body, 1.0 m (3.3 ft) lead, no and not required; match the probe and extension cable to the Proximator system length before full-travel calibration.

TECHNICAL DATA

PARAMETER	VALUE
Probe model	330876
Probe case	Smooth 1.99 in diameter side-exit
Total probe length	1.0 m (3.3 ft)
Probe cable	High-temperature FluidLoc
Armor	No
Agency approval option	Not required
Probe tip material	PPS
Probe case material	AISI 304 stainless steel

PARAMETER	VALUE
Probe cable impedance	75 Ohm
Power without barriers	-17.5 to -26 V DC; 12 mA maximum
Power with barriers	-23 to -26 V DC
Output resistance	50 Ohm
Field-wire conductor range	0.2 to 1.5 mm2 (16 to 24 AWG)
Maximum field-wire length	305 m (1000 ft)
Linear range	27.9 mm (1100 mils)
Linear-range limits	1.3 to 29.2 mm (50 to 1150 mils)

ENGINEERING NOTE

Confirm the smooth 1.99 in diameter side-exit body, 1.0 m (3.3 ft) lead, no and not required; match the probe and extension cable to the Proximitor system length before full-travel calibration.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330103-00-05-05-02-00	Related Bently Nevada product	View 330103-00-05-05-02-00 page
991-01-XX-02-05	Related Bently Nevada product	View 991-01-XX-02-05 page
TK-3E-177313-02-02-00	Related Bently Nevada product	View TK-3E-177313-02-02-00 page
330130-080-01-CN	Related Bently Nevada product	View 330130-080-01-CN page
74712-06-05-03-00	Related Bently Nevada product	View 74712-06-05-03-00 page
330850-90-05	Related Bently Nevada product	View 330850-90-05 page
330104-00-06-05-02-00	Related Bently Nevada product	View 330104-00-06-05-02-00 page
330850-90-00	Related Bently Nevada product	View 330850-90-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Turbine differential expansion

Uses the documented smooth 1.99 in diameter side-exit body

Large axial-position measurement

Carries the signal over a 1.0 m (3.3 ft) FluidLoc lead

Valve and rotor travel monitoring

Provides the large-range 50 mm sensing interface

50 mm transducer-loop renewal

Operates only as part of a matched 3300 XL 50 mm system

PRODUCT PRECAUTIONS

- 1 Verify the complete 330876-03-10-00-00 marking and Smooth 1.99 in diameter side-exit 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 (3.3 ft) 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 50 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 330876-03-10-00-00 match 3300 XL 50 mm Proximity Sensor in a Turbine differential expansion installation?

Verify the complete 330876-03-10-00-00 marking, the documented 3300 XL 50 mm Proximity Transducer System position and the installed 3300 XL 50 mm Proximity Sensor before fitting the assembly.

Q3 Which 3300 XL 50 mm Proximity Transducer System records should be captured before removing 330876-03-10-00-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330876-03-10-00-00 before disconnection.

Q5 Which matched extension cable when required condition should be checked when 330876-03-10-00-00 reports an abnormal state?

Check the matched extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330876-03-10-00-00 baseline.

Q7 What maintenance evidence is required after 330876-03-10-00-00 is used for Valve and rotor travel monitoring?

Retain the nameplate record, corrective action, final diagnostics and a controlled valve and rotor travel monitoring functional-test result for 330876-03-10-00-00.

Q2 How should 330876-03-10-00-00 be wired when it must use the documented smooth 1.99 in diameter side-exit body?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330876-03-10-00-00; then continuity-test the affected path.

Q4 What controlled test confirms that 330876-03-10-00-00 can carry the signal over a 1.0 m (3.3 ft) fluidloc lead?

Apply the approved field or simulated stimulus, observe the 3300 XL 50 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 330876-03-10-00-00 be moved directly into Large axial-position measurement without validating compatible displacement monitor?

No. Confirm the compatible displacement monitor, revision, connection scheme and 3300 XL 50 mm Proximity Transducer System configuration before transferring 330876-03-10-00-00 to that duty.

Q8 How should 330876-03-10-00-00 be returned to service in 50 mm transducer-loop renewal?

Restore power under control, verify provides the large-range 50 mm sensing interface, exercise the intended signal path and release 330876-03-10-00-00 only after the 3300 XL 50 mm Proximity Transducer System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL 50 mm Proximity Transducer System Datasheet | 174014 Rev. L

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