330876-01-50-01-05

3300 XL 50 mm 1 1/2-20 threaded proximity probe

Large-range non-contact eddy-current displacement signal

PRODUCT SNAPSHOT

BRAND
Bently Nevada

FAMILY
3300 XL 50 mm Proximity Transducer System

PART
330876-01-50-01-05

ORIGIN / HS
USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com

PRODUCT OVERVIEW

Large-range non-contact eddy-current displacement signal

1. Uses the documented 1 1/2-20 threaded body
2. Carries the signal over a 5.0 m (16.4 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 Proximitor Sensor
- matched extension cable when required
- 102 mm or larger steel target
- compatible displacement monitor

TECHNICAL NOTE

Confirm the 1 1/2-20 threaded body, 5.0 m (16.4 ft) lead, stainless-steel and multiple approvals; match the probe and extension cable to the Proximitor system length before full-travel calibration.

TECHNICAL DATA

PARAMETER	VALUE
Probe model	330876
Probe case	1 1/2-20 threaded
Total probe length	5.0 m (16.4 ft)
Probe cable	High-temperature FluidLoc
Armor	Stainless-steel
Agency approval option	Multiple approvals
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 1 1/2-20 threaded body, 5.0 m (16.4 ft) lead, stainless-steel and multiple approvals; 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
125800-01	Related Bently Nevada product	View 125800-01 page
125720-02	Related Bently Nevada product	View 125720-02 page
3500-32M-149986-02	Related Bently Nevada product	View 3500-32M-149986-02 page
3500-05-01-02-00-00-01	Related Bently Nevada product	View 3500-05-01-02-00-00-01 page
990-04-70-02-00	Related Bently Nevada product	View 990-04-70-02-00 page
3500-25-149369-01	Related Bently Nevada product	View 3500-25-149369-01 page
133819-01	Related Bently Nevada product	View 133819-01 page
TM0180-A08-B00-C02-D10	Related Bently Nevada product	View TM0180-A08-B00-C02-D10 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Turbine differential expansion

Uses the documented 1 1/2-20 threaded body

Large axial-position measurement

Carries the signal over a 5.0 m (16.4 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 330876-01-50-01-05 marking and 1 1/2-20 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 5.0 m (16.4 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 330876-01-50-01-05 match 3300 XL 50 mm Proximitor Sensor in a Turbine differential expansion installation?

Verify the complete 330876-01-50-01-05 marking, the documented 3300 XL 50 mm Proximity Transducer System position and the installed 3300 XL 50 mm Proximitor Sensor before fitting the assembly.

Q2 How should 330876-01-50-01-05 be wired when it must uses the documented 1 1/2-20 threaded body?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330876-01-50-01-05; then continuity-test the affected path.

Q3 Which 3300 XL 50 mm Proximity Transducer System records should be captured before removing 330876-01-50-01-05?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330876-01-50-01-05 before disconnection.

Q4 What controlled test confirms that 330876-01-50-01-05 can carries the signal over a 5.0 m (16.4 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.

Q5 Which matched extension cable when required condition should be checked when 330876-01-50-01-05 reports an abnormal state?

Check the matched extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330876-01-50-01-05 baseline.

Q6 Can 330876-01-50-01-05 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 330876-01-50-01-05 to that duty.

Q7 What maintenance evidence is required after 330876-01-50-01-05 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 330876-01-50-01-05.

Q8 How should 330876-01-50-01-05 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 330876-01-50-01-05 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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