

# 330876-02-10-00-00

## 3300 XL 50 mm Proximity Probe

Bently Nevada 330876-02-10-00-00 is an M14 x 1.5 3300 XL 50 mm proximity probe. It measures large shaft or structural displacement through a matched 50 mm transducer system.

### PRODUCT SNAPSHOT

#### BRAND

Bently Nevada

#### FAMILY

3300 XL 50 mm Proximity Transducer System

#### PART

330876-02-10-00-00

#### ORIGIN / HS

USA / 8537101190

### APTER POWER SALES TEAM

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# PRODUCT OVERVIEW

Bently Nevada 330876-02-10-00-00 is an M14 x 1.5 3300 XL 50 mm proximity probe. It measures large shaft or structural displacement through a matched 50 mm transducer system.

- 1

Measures very large static or dynamic displacement without contact
- 2

Forms the probe element of a matched 50 mm transducer system
- 3

Uses high-temperature FluidLoc cable at the probe connection
- 4

Provides the displacement signal to a compatible monitoring channel

## SYSTEM COMPONENTS

3300 XL 50 mm Proximator Sensor

matched extension cable

compatible displacement monitor

AISI 4140 target

## RELATED PRODUCTS ON APTER POWER

| MODEL                 | SYSTEM ROLE                   | APTER POWER PAGE                  |
|-----------------------|-------------------------------|-----------------------------------|
| 330171-00-12-05-01-05 | 3300 XL proximity probe       | <a href="#">Open product page</a> |
| 200150-09-CN          | General-purpose accelerometer | <a href="#">Open product page</a> |

TECHNICAL DATA

| PARAMETER            | VALUE                                   |
|----------------------|-----------------------------------------|
| Probe body thread    | M14 x 1.5                               |
| Integral lead length | 1.0 m                                   |
| Cable execution      | High-temperature FluidLoc without armor |

| PARAMETER               | VALUE           |
|-------------------------|-----------------|
| Agency approval option  | None            |
| Nominal target material | AISI 4140 steel |

SYSTEM CONNECTION AND ACCEPTANCE RECORD

| RECORD ITEM                | DOCUMENTED ASSIGNMENT                                              |
|----------------------------|--------------------------------------------------------------------|
| Installed host / carrier   | 3300 XL 50 mm Proximitor Sensor                                    |
| Companion hardware         | matched extension cable                                            |
| Field connection           | compatible displacement monitor                                    |
| Primary system function    | Measures very large static or dynamic displacement without contact |
| Controlled acceptance duty | Large-range shaft position                                         |

TECHNICAL NOTE

Use the complete 50 mm matched transducer set, maintain the specified target geometry, route the 1 m FluidLoc lead within its temperature limits, and verify scale and gap over the required range.

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### Large-range shaft position

Measures very large static or dynamic displacement without contact

### Turbine differential expansion

Forms the probe element of a matched 50 mm transducer system

### Structural displacement monitoring

Uses high-temperature FluidLoc cable at the probe connection

### Large-clearance thrust-position measurement

Provides the displacement signal to a compatible monitoring channel

## PRODUCT PRECAUTIONS

- 1 Verify 330876-02-10-00-00 and the M14 x 1.5 mounting execution.
- 2 Secure the machine and place the displacement channel in maintenance state.
- 3 Protect the large probe tip and mounting thread from impact.
- 4 Confirm target material, area, and travel cover the engineered measurement range.
- 5 Route the high-temperature FluidLoc lead away from abrasion and tensile load.
- 6 Use only the matched 50 mm extension cable and Proximity Sensor.
- 7 Check static position across the expected mechanical travel.
- 8 Prove polarity, scaling, alarms, and trip action before service.

# ENGINEER FAQ

## Q1 What isolation is required before installing 330876-02-10-00-00?

Place large-range shaft position in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.

## Q2 Which configuration check is essential when commissioning 330876-02-10-00-00?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.

## Q3 How can an engineer function-test 330876-02-10-00-00 after installation?

Apply a controlled input, reference, or limited output appropriate to 3300 xl 50 mm proximity probe, observe the system indication and diagnostics, and confirm the intended process response.

## Q4 What should be checked if 330876-02-10-00-00 reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.

## Q5 Can 330876-02-10-00-00 be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

## Q6 What commissioning evidence should be retained for 330876-02-10-00-00?

Retain the full 330876-02-10-00-00 identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

## Q7 Which installed hardware must be matched before fitting 330876-02-10-00-00?

Match the complete 330876-02-10-00-00 marking to 3300 XL 50 mm Proximity Sensor and matched extension cable, then confirm the assigned 3300 XL 50 mm Proximity Transducer System position and approved system configuration.

## Q8 How should the field connections for 330876-02-10-00-00 be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting 330876-02-10-00-00.