

## APTER POWER

COMPLETE PRODUCT INFORMATION

# 330103-00-25-50-02-02

### 3300 XL 8 mm Proximity Probe

The probe senses shaft-to-bearing relative displacement without mechanical contact and carries the eddy-current signal through its integral coaxial lead.

#### PRODUCT SNAPSHOT

##### BRAND

Bently Nevada

##### FAMILY

3300 XL 8 mm Proximity Transducer System

##### PART

330103-00-25-50-02-02

##### ORIGIN / HS

USA / 8537101190

#### APTER POWER SALES TEAM

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## PRODUCT OVERVIEW

The probe senses shaft-to-bearing relative displacement without mechanical contact and carries the eddy-current signal through its integral coaxial lead.

1

Detects shaft-to-bearing relative position without contact

2

Forms the sensing element of a matched 3300 XL 8 mm loop

3

Carries the eddy-current signal through a 75 Ohm coaxial lead

4

Supports radial vibration, axial position and shaft centerline observation

## SYSTEM COMPONENTS

Matched 3300 XL 8 mm Proximitors Sensor

Compatible Bently Nevada monitor channel

AISI 4140 steel target or approved equivalent

Supported probe bracket and coaxial routing

### TECHNICAL NOTE

Install 330103-00-25-50-02-02 only in the documented 3300 XL 8 mm Proximity Transducer System position and preserve the recorded connections. After installation, restore the approved configuration and complete controlled diagnostic and functional checks.

## TECHNICAL DATA

| PARAMETER               | VALUE                      |
|-------------------------|----------------------------|
| Complete catalog number | 330103-00-25-50-02-02      |
| Probe construction      | Without armor              |
| Mounting thread         | M10 x 1                    |
| Unthreaded length       | 0 mm                       |
| Case length             | 250 mm                     |
| Total probe length      | 5.0 m                      |
| Connector               | Miniature coaxial ClickLoc |
| Probe-cable type        | Standard cable             |
| Approval order code     | 02                         |
| Probe-tip diameter      | 8.0 mm                     |
| System linear range     | 2.0 mm (80 mils)           |

| PARAMETER                          | VALUE                  |
|------------------------------------|------------------------|
| Approximate linear-range limits    | 0.25 to 2.3 mm         |
| Approximate output span            | -1 to -17 V DC         |
| Recommended gap                    | 1.27 mm (50 mils)      |
| Nominal output at recommended gap  | -9 V DC                |
| Incremental scale factor           | 7.87 V/mm (200 mV/mil) |
| Frequency response                 | 0 to 10 kHz, +0/-3 dB  |
| Minimum flat target diameter       | 15.2 mm                |
| Recommended minimum shaft diameter | 76.2 mm                |
| Probe cable impedance              | 75 Ohm                 |
| Probe cable temperature            | -52 to +177 degC       |

### RELATED PRODUCTS ON APTER POWER

| MODEL                 | SYSTEM ROLE                            | APTER POWER PAGE                                |
|-----------------------|----------------------------------------|-------------------------------------------------|
| 330130-080-02-05      | 3300 XL extension cable                | <a href="#">View 330130-080-02-05 page</a>      |
| 330850-50-00          | 3300 XL NSv Proximitior Sensor         | <a href="#">View 330850-50-00 page</a>          |
| 330171-00-12-50-01-05 | 3300 XL 5/8 mm proximity probe         | <a href="#">View 330171-00-12-50-01-05 page</a> |
| 330171-00-12-05-01-05 | 3300 XL 5/8 mm proximity probe         | <a href="#">View 330171-00-12-05-01-05 page</a> |
| 330171-00-33-50-01-05 | 3300 XL 5/8 mm proximity probe         | <a href="#">View 330171-00-33-50-01-05 page</a> |
| 330171-00-08-10-01-05 | 3300 XL 5/8 mm proximity probe         | <a href="#">View 330171-00-08-10-01-05 page</a> |
| 330172-00-08-10-01-05 | 3300 XL 5/8 mm armored proximity probe | <a href="#">View 330172-00-08-10-01-05 page</a> |
| 330103-00-04-10-02-00 | 3300 XL 8 mm metric proximity probe    | <a href="#">View 330103-00-04-10-02-00 page</a> |

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### 3300 XL 8 mm Proximity Transducer System installed-base service

Detects shaft-to-bearing relative position without contact

### 3300 XL 8 mm Proximity Transducer System compatibility review

Forms the sensing element of a matched 3300 XL 8 mm loop

### 3300 XL 8 mm Proximity Transducer System installation planning

Carries the eddy-current signal through a 75 Ohm coaxial lead

### 3300 XL 8 mm Proximity Transducer System controlled commissioning

Supports radial vibration, axial position and shaft centerline observation

## PRODUCT PRECAUTIONS

- 1 Verify the complete 330103-00-25-50-02-02 marking and installed position before work.
- 2 Place the connected equipment in the approved maintenance state.
- 3 Isolate applicable power and signal energy before disconnecting wiring.
- 4 Use ESD controls and protect connectors from contamination or damage.
- 5 Record as-found cable, terminal, shield and grounding identity.
- 6 Restore only the approved system configuration for this exact catalog number.
- 7 Inspect mechanical mounting and cable support before energization.
- 8 Complete controlled diagnostics and a functional response test before release.

# ENGINEER FAQ

## **Q1 Does 330103-00-25-50-02-02 match Matched 3300 XL 8 mm Proximity Sensor in a 3300 XL 8 mm Proximity Transducer System installed-base service installation?**

Verify the complete 330103-00-25-50-02-02 marking, the documented 3300 XL 8 mm Proximity Transducer System position and the installed Matched 3300 XL 8 mm Proximity Sensor before fitting the assembly.

## **Q3 Which 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330103-00-25-50-02-02?**

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330103-00-25-50-02-02 before disconnection.

## **Q5 Which Compatible Bently Nevada monitor channel condition should be checked when 330103-00-25-50-02-02 reports an abnormal state?**

Check the Compatible Bently Nevada monitor channel supply, seating and connection first, then compare channel diagnostics with the recorded 330103-00-25-50-02-02 baseline.

## **Q7 What maintenance evidence is required after 330103-00-25-50-02-02 is used for 3300 XL 8 mm Proximity Transducer System installation planning?**

Retain the nameplate record, corrective action, final diagnostics and a controlled 3300 xl 8 mm proximity transducer system installation planning functional-test result for 330103-00-25-50-02-02.

## **Q2 How should 330103-00-25-50-02-02 be wired when it must detects shaft-to-bearing relative position without contact?**

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330103-00-25-50-02-02; then continuity-test the affected path.

## **Q4 What controlled test confirms that 330103-00-25-50-02-02 can forms the sensing element of a matched 3300 xl 8 mm loop?**

Apply the approved field or simulated stimulus, observe the 3300 XL 8 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

## **Q6 Can 330103-00-25-50-02-02 be moved directly into 3300 XL 8 mm Proximity Transducer System compatibility review without validating Supported probe bracket and coaxial routing?**

No. Confirm the Supported probe bracket and coaxial routing, revision, connection scheme and 3300 XL 8 mm Proximity Transducer System configuration before transferring 330103-00-25-50-02-02 to that duty.

## **Q8 How should 330103-00-25-50-02-02 be returned to service in 3300 XL 8 mm Proximity Transducer System controlled commissioning?**

Restore power under control, verify carries the eddy-current signal through a 75 ohm coaxial lead, exercise the intended signal path and release 330103-00-25-50-02-02 only after the 3300 XL 8 mm Proximity Transducer System remains in its approved operating state.

**SOURCE** Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet | 141194 Rev. AM

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