

APTER POWER PRODUCT TECHNICAL REFERENCE

330101-00-40-05-02-00

3300 XL 8 mm Proximity Probe

330101-00-40-05-02-00 is the unarmored, English-thread standard-mount probe configuration for the Bently Nevada 3300 XL 8 mm Proximity Transducer System.

|                     |                              |
|---------------------|------------------------------|
| Manufacturer        | Bently Nevada                |
| Complete model      | 330101-00-40-05-02-00        |
| Product family      | 3300 XL 8 mm Proximity Probe |
| Base probe model    | 330101                       |
| Mounting thread     | 3/8-24 UNF                   |
| Cable armor         | Without armor                |
| Unthreaded length   | 0.0 in                       |
| Overall case length | 4.0 in                       |

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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330101-00-40-05-02-00

## 1. Exact ordering-code configuration

The complete identifier must be interpreted as a single ordered configuration. The table below records the code fields used for this exact probe; it does not transfer values from another suffix.

|                |                                                      |
|----------------|------------------------------------------------------|
| <b>330101</b>  | 3/8-24 UNF probe family; without armor               |
| <b>AA = 00</b> | 0.0 in unthreaded length                             |
| <b>BB = 40</b> | 4.0 in overall case length                           |
| <b>CC = 05</b> | 0.5 m total probe length                             |
| <b>DD = 02</b> | Miniature coaxial ClickLoc connector; standard cable |
| <b>EE = 00</b> | Agency approvals not required                        |

## 2. Role in the measurement chain

The probe is the sensing element in a matched eddy-current transducer loop. With the documented extension-cable arrangement and Proximitior Sensor, probe-to-target motion is converted into a conditioned voltage used by the host machine-monitoring system.

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| <b>Probe</b>              | Senses distance to the conductive target                          |
| <b>Extension cable</b>    | Completes the documented system-length arrangement                |
| <b>Proximitior Sensor</b> | Conditions the eddy-current response                              |
| <b>Monitoring channel</b> | Receives the proximity signal for the configured machine function |

### 3. Verified product parameters

|                        |                            |
|------------------------|----------------------------|
| Mounting thread        | 3/8-24 UNF                 |
| Cable armor            | Without armor              |
| Unthreaded length      | 0.0 in                     |
| Overall case length    | 4.0 in                     |
| Total probe length     | 0.5 m                      |
| Connector              | Miniature coaxial ClickLoc |
| Cable type             | Standard cable             |
| Agency approval option | Not required               |
| Probe tip diameter     | 8.0 mm                     |
| Country of origin      | USA                        |
| HS code                | 8537101190                 |
| Shipping location      | Xiamen, Fujian, China      |

### 4. Supported engineering applications

#### Radial shaft vibration

Non-contact observation of dynamic shaft motion on fluid-film-bearing machinery.

#### Axial or static position

Observation of shaft displacement within the documented transducer-system and target conditions.

#### Keyphasor reference

Phase-reference sensing when installed to the manufacturer's documented target and channel conditions.

#### Speed-related sensing

Use as a proximity sensing point in a documented speed-measurement arrangement.

## 5. Model-specific engineering FAQ

1

### What is 330101-00-40-05-02-00?

It is the unarmored, English-thread standard-mount probe configuration for a Bently Nevada 3300 XL 8 mm Proximity Transducer System.

5

### What must be checked before installing 330101-00-40-05-02-00?

Confirm the full ordering code, 3/8-24 UNF thread, 4.0 in case clearance, cable route, connector, 0.5 m total system length and installed companion hardware.

2

### Which system components are used with 330101-00-40-05-02-00?

Use it only in a documented matched 3300 XL system with the applicable extension-cable arrangement and Proximitor Sensor.

6

### How should 330101-00-40-05-02-00 be commissioned?

Set and verify the operating gap and confirm the expected system signal using the approved machine and monitoring-system procedure.

3

### What does 330101-00-40-05-02-00 measure?

In the matched system, the probe supports non-contact measurement of shaft position and dynamic shaft vibration.

7

### Can a similar 3300 XL probe replace 330101-00-40-05-02-00?

Only after the complete ordering code and matched system configuration have been checked against the installed equipment documentation.

4

### Can 330101-00-40-05-02-00 provide a Keyphasor reference?

Yes, when applied within the manufacturer's documented probe geometry, target requirements and monitoring-channel conditions.

8

### What records should be retained for 330101-00-40-05-02-00?

Record the complete model, installed companion components, final mechanical position, gap verification and commissioning results.

6. Related 3300 XL 8 mm records

The following distinct Apter Power pages are provided for same-series comparison. Verify the full ordering code before treating any related configuration as interchangeable.

- Related model 1: 330101-00-18-10-02-00
- Related model 2: 330101-00-26-05-01-05
- Related model 3: 330101-00-12-10-11-00
- Related model 4: 330102-00-40-10-01-05
- Related model 5: 330101-00-29-10-02-00
- Related model 6: 330101-00-12-05-01-05
- Related model 7: 330101-00-53-10-12-05
- Related model 8: 330101-00-31-15-02-05

7. Official manufacturer source

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet - 141194 Rev. AM

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