

INDUSTRIAL AUTOMATION PRODUCT

330103-12-25-10-02-00

3300 XL 8 mm Proximity Probe

Bently Nevada 330103-12-25-10-02-00 is a M10 x 1 unarmored 3300 xl 8 mm proximity probe with a 1.0 m lead and Miniature coaxial ClickLoc connection. It senses shaft-to-bearing relative displacement in a matched proximity transducer system.

| IDENTITY      | VERIFIED VALUE                                                        |
|---------------|-----------------------------------------------------------------------|
| Manufacturer  | Bently Nevada                                                         |
| System family | Bently Nevada 3300 XL 8 mm Proximity Transducer System                |
| Part number   | 330103-12-25-10-02-00                                                 |
| Product role  | Detects shaft-to-bearing relative movement without mechanical contact |
| Lifecycle     | Installed product record                                              |

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Install 330103-12-25-10-02-00 only in the documented Bently Nevada 3300 XL 8 mm Proximity Transducer System arrangement and record the exact connection and configuration before removal. Restore the approved settings, then verify diagnostics and functional response before release.

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330103-12-25-10-02-00

# Technical Specifications

Technical values below are limited to the named Bently Nevada product record and directly applicable manufacturer documentation.

| PARAMETER             | VALUE                 | PARAMETER             | VALUE                 |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Country of origin     | USA                   | Total lead length     | 1.0 m                 |
| HS code               | 8537101190            | Frequency response    | 0 to 10 kHz, +0/-3 dB |
| Complete order number | 330103-12-25-10-02-00 | Probe cable impedance | 75 ohm                |
| Probe construction    | Without armor         | Probe temperature     | -52 to +177 deg C     |
| Mounting thread       | M10 x 1               | Proximitor supply     | -17.5 to -26 VDC      |
| Unthreaded length     | 120 mm                | Field wiring          | 0.2 to 1.5 mm2        |
| Case length           | 250 mm                | Maximum field wiring  | 305 m                 |

## Verified Product Record

| DATA GROUP                 | VERIFIED VALUE                                                                                                                                                                                                                                                                           |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installed host / carrier   | Bently Nevada 3300 XL 8 mm Proximity Transducer System                                                                                                                                                                                                                                   |
| Primary system role        | Detects shaft-to-bearing relative movement without mechanical contact                                                                                                                                                                                                                    |
| Connection boundary        | Install 330103-12-25-10-02-00 only in the documented Bently Nevada 3300 XL 8 mm Proximity Transducer System arrangement and record the exact connection and configuration before removal. Restore the approved settings, then verify diagnostics and functional response before release. |
| Controlled acceptance duty | Radial shaft-vibration measurement                                                                                                                                                                                                                                                       |

### ENGINEERING BOUNDARY

Confirm the complete 330103-12-25-10-02-00 marking, installed host, hardware execution, terminals or connectors, wiring, grounding, configuration, accessories and controlled commissioning results.

## Pre-Installation Checks

- 1

Confirm the complete 330103-12-25-10-02-00 marking, M10 x 1 thread and 250 mm case execution.
- 2

Place the monitored machine and associated protection channel in the approved maintenance state.
- 3

Protect the 8.0 mm probe tip and keep the mounting thread free from burrs and contamination.
- 4

Route the 1.0 m unarmored probe lead without sharp bends, crushing or tensile loading.

## Documented Service Record

| RECORD ITEM        | REQUIRED ENTRY                                         |
|--------------------|--------------------------------------------------------|
| As-found article   | 330103-12-25-10-02-00                                  |
| Installed host     | Bently Nevada 3300 XL 8 mm Proximity Transducer System |
| Connection record  | Capture before removal                                 |
| Controlled release | Diagnostics and functional proof                       |

## System Role and Architecture

Bently Nevada 330103-12-25-10-02-00 is a M10 x 1 unarmored 3300 xl 8 mm proximity probe with a 1.0 m lead and Miniature coaxial ClickLoc connection. It senses shaft-to-bearing relative displacement in a matched proximity transducer system.

**FUNCTION 1**  
Detects shaft-to-bearing relative movement without mechanical contact

**FUNCTION 2**  
Forms the field sensing element of the matched eddy-current loop

**FUNCTION 3**  
Carries the probe signal through the specified service connection

**FUNCTION 4**  
Supports static-position and vibration measurements on rotating machinery

### Matched System Components

| NO. | DOCUMENTED COMPONENT / ROLE                                                                                                                                                                                                                                                              |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Bently Nevada 3300 XL 8 mm Proximity Transducer System                                                                                                                                                                                                                                   |
| 2   | 8537101190                                                                                                                                                                                                                                                                               |
| 3   | Radial shaft-vibration measurement                                                                                                                                                                                                                                                       |
| 4   | Install 330103-12-25-10-02-00 only in the documented Bently Nevada 3300 XL 8 mm Proximity Transducer System arrangement and record the exact connection and configuration before removal. Restore the approved settings, then verify diagnostics and functional response before release. |

### System Integration Record

| INTEGRATION ITEM       | DOCUMENTED ROLE                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host identity          | Bently Nevada 3300 XL 8 mm Proximity Transducer System                                                                                                                                     |
| Interface role         | Detects shaft-to-bearing relative movement without mechanical contact                                                                                                                      |
| Field / power context  | Use 330103-12-25-10-02-00 only with its documented host, interfaces and accessories; record the as-found arrangement and complete a controlled functional verification after installation. |
| Commissioning evidence | Prove polarity, static position, dynamic response and alarm action before returning the channel to service.                                                                                |

### Installation and Connection Checks

1

Keep the Miniature coaxial ClickLoc connection clean, dry and finger-tight.

2

Confirm the installed extension cable and Proximitior Sensor match the approved total system length.

3

Set the static gap within the documented linear region while maintaining target clearance.

4

Prove polarity, static position, dynamic response and alarm action before returning the channel to service.

#### MANUFACTURER SOURCE RECORD

3300 XL 8 mm Proximity Transducer System Datasheet  
Baker Hughes document 141194 Rev. AM

# Applications and Engineering Context

## Radial shaft-vibration measurement

Measures shaft motion relative to the bearing housing in a matched proximity loop.

## Axial position monitoring

Provides the field sensing point for a documented thrust-position channel.

## Machine shaft centerline observation

Supplies slow-roll and static-position information for the configured monitor.

## Probe replacement in a matched loop

Restores the exact mechanical and cable execution without changing system identity.

### TECHNICAL NOTE

Install 330103-12-25-10-02-00 only in the documented Bently Nevada 3300 XL 8 mm Proximity Transducer System arrangement and record the exact connection and configuration before removal. Restore the approved settings, then verify diagnostics and functional response before release.

## Model-Specific Acceptance Evidence

| CHECK              | ACCEPTANCE CONDITION                                                                                        |
|--------------------|-------------------------------------------------------------------------------------------------------------|
| Identity           | 330103-12-25-10-02-00 recorded                                                                              |
| Host / carrier     | Bently Nevada 3300 XL 8 mm Proximity Transducer System                                                      |
| Physical interface | Detects shaft-to-bearing relative movement without mechanical contact                                       |
| Configuration      | Set the static gap within the documented linear region while maintaining target clearance.                  |
| Functional proof   | Prove polarity, static position, dynamic response and alarm action before returning the channel to service. |

## IMPORTANT NOTICE

Confirm the complete 330103-12-25-10-02-00 marking, installed host, hardware execution, terminals or connectors, wiring, grounding, configuration, accessories and controlled commissioning results.

## Controlled Release Summary

| RELEASE ITEM     | MODEL-SPECIFIC CONDITION                                                                                    |
|------------------|-------------------------------------------------------------------------------------------------------------|
| Article identity | 330103-12-25-10-02-00                                                                                       |
| Approved role    | Radial shaft-vibration measurement                                                                          |
| Final validation | Prove polarity, static position, dynamic response and alarm action before returning the channel to service. |

# Engineering Precautions

- 1

Confirm the complete 330103-12-25-10-02-00 marking, M10 x 1 thread and 250 mm case execution.
- 2

Place the monitored machine and associated protection channel in the approved maintenance state.
- 3

Protect the 8.0 mm probe tip and keep the mounting thread free from burrs and contamination.
- 4

Route the 1.0 m unarmored probe lead without sharp bends, crushing or tensile loading.
- 5

Keep the Miniature coaxial ClickLoc connection clean, dry and finger-tight.
- 6

Confirm the installed extension cable and Proximitor Sensor match the approved total system length.
- 7

Set the static gap within the documented linear region while maintaining target clearance.
- 8

Prove polarity, static position, dynamic response and alarm action before returning the channel to service.

## Related Products on Apter Power

| MODEL                 | SYSTEM ROLE         | APTER POWER PAGE                                |
|-----------------------|---------------------|-------------------------------------------------|
| 330104-00-12-10-02-00 | armored probe       | <a href="#">View 330104-00-12-10-02-00 page</a> |
| 330104-03-06-10-02-00 | armored probe       | <a href="#">View 330104-03-06-10-02-00 page</a> |
| 330104-06-12-10-02-00 | armored probe       | <a href="#">View 330104-06-12-10-02-00 page</a> |
| 330105-02-12-10-02-05 | reverse-mount probe | <a href="#">View 330105-02-12-10-02-05 page</a> |
| 330106-05-30-10-02-05 | reverse-mount probe | <a href="#">View 330106-05-30-10-02-05 page</a> |
| 330130-080-00-00      | extension cable     | <a href="#">View 330130-080-00-00 page</a>      |
| 330180-50-00          | Proximitor Sensor   | <a href="#">View 330180-50-00 page</a>          |
| 3500/25               | Keyphasor module    | <a href="#">View 3500/25 page</a>               |

## MANUFACTURER SOURCE RECORD

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