

INDUSTRIAL AUTOMATION PRODUCT

330180-X1-05 MOD:143416-42

3300 XL 8 mm Proximitior Sensor

Bently Nevada 330180-X1-05 MOD:143416-42 is the documented 3300 XL 8 mm Proximitior Sensor for the Bently Nevada 3300 XL 8 mm proximity transducer system. It conditions the matched probe signal for the monitor channel.

| IDENTITY      | VERIFIED VALUE                                         |
|---------------|--------------------------------------------------------|
| Manufacturer  | Bently Nevada                                          |
| System family | Bently Nevada 3300 XL 8 mm proximity transducer system |
| Part number   | 330180-X1-05 MOD:143416-42                             |
| Product role  | Conditions the matched eddy-current probe signal       |
| Lifecycle     | Installed product record                               |

DOCUMENT SCOPE

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

MODEL-SPECIFIC ENGINEERING NOTE

Match Bently Nevada 330180-X1-05 MOD:143416-42 to the documented host and mating interfaces, and record the as-found MOD 143416-42, connections, cable route, shielding and configuration. Restore the approved arrangement and verify diagnostics and controlled channel response before release.

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330180-X1-05

MOD:143416-42

# Technical Specifications

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

| PARAMETER     | VALUE             | PARAMETER          | VALUE                         |
|---------------|-------------------|--------------------|-------------------------------|
| System family | 3300 XL 8 mm      | Function           | Proximity-signal conditioning |
| Component     | Proximitor Sensor | Reference document | 141194 Rev. AL                |

## Verified Product Record

| DATA GROUP                 | VERIFIED VALUE                                                                                                                                                                                                                                                                                     |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installed host / carrier   | Bently Nevada 3300 XL 8 mm proximity transducer system                                                                                                                                                                                                                                             |
| Primary system role        | Conditions the matched eddy-current probe signal                                                                                                                                                                                                                                                   |
| Connection boundary        | Match Bently Nevada 330180-X1-05 MOD:143416-42 to the documented host and mating interfaces, and record the as-found MOD 143416-42, connections, cable route, shielding and configuration. Restore the approved arrangement and verify diagnostics and controlled channel response before release. |
| Controlled acceptance duty | Radial shaft-vibration conditioning                                                                                                                                                                                                                                                                |

### ENGINEERING BOUNDARY

Confirm Bently Nevada 330180-X1-05 MOD:143416-42, complete article suffix, installed host, mating components, mounting, connectors, cable route, wiring, shielding, grounding, monitor configuration and controlled functional-test results before commissioning.

## Pre-Installation Checks

|   |                                                                                              |   |                                                                                                     |
|---|----------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------|
| 1 | Confirm Bently Nevada 330180-X1-05 MOD:143416-42 and the complete installed article marking. | 2 | Place the monitored machine and protection channel in the approved maintenance state.               |
| 3 | Isolate the affected circuit and apply ESD-safe handling.                                    | 4 | Record the installed position, connectors, cable route, shielding and MOD 143416-42 before removal. |

## Documented Service Record

| RECORD ITEM        | REQUIRED ENTRY                                         |
|--------------------|--------------------------------------------------------|
| As-found article   | 330180-X1-05 MOD:143416-42                             |
| 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 330180-X1-05 MOD:143416-42 is the documented 3300 XL 8 mm Proximitor Sensor for the Bently Nevada 3300 XL 8 mm proximity transducer system. It conditions the matched probe signal for the monitor channel.

**FUNCTION 1**  
Conditions the matched eddy-current probe signal

**FUNCTION 2**  
Interfaces the transducer loop with the monitor

**FUNCTION 3**  
Supports static and dynamic displacement measurement

**FUNCTION 4**  
Provides a defined replacement and verification path

## Matched System Components

| NO. | DOCUMENTED COMPONENT / ROLE                                                                                                                                                                                                                                                                        |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Bently Nevada 3300 XL 8 mm proximity transducer system                                                                                                                                                                                                                                             |
| 2   | Proximitor Sensor                                                                                                                                                                                                                                                                                  |
| 3   | Radial shaft-vibration conditioning                                                                                                                                                                                                                                                                |
| 4   | Match Bently Nevada 330180-X1-05 MOD:143416-42 to the documented host and mating interfaces, and record the as-found MOD 143416-42, connections, cable route, shielding and configuration. Restore the approved arrangement and verify diagnostics and controlled channel response before release. |

## System Integration Record

| INTEGRATION ITEM       | DOCUMENTED ROLE                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host identity          | Bently Nevada 3300 XL 8 mm proximity transducer system                                                                                                                                                                                                          |
| Interface role         | Conditions the matched eddy-current probe signal                                                                                                                                                                                                                |
| Field / power context  | The article is installed only with the documented Bently Nevada 3300 XL 8 mm proximity transducer system components. Commissioning preserves the exact suffix identity, physical interfaces, wiring, shielding, configuration and controlled response evidence. |
| Commissioning evidence | Complete a controlled response and alarm test before service release.                                                                                                                                                                                           |

## Installation and Connection Checks

- 1

Confirm the documented host, mating components and physical interfaces.
- 2

Restore the approved mounting, wiring, shielding and monitor configuration.
- 3

Review supply, bias, channel and monitor diagnostics after energization.
- 4

Complete a controlled response and alarm test before service release.

### MANUFACTURER SOURCE RECORD

3300 XL 8 mm Proximity Transducer System Datasheet  
Baker Hughes publication 141194 Rev. AL

# Applications and Engineering Context

**Radial shaft-vibration conditioning**  
  
Converts the proximity probe signal for a monitor channel.

**Axial position monitoring**  
  
Provides conditioned displacement output for a thrust channel.

**Machine centerline observation**  
  
Supports static position trending with the matched probe system.

**Monitor-channel restoration**  
  
Restores a documented signal-conditioning position and bias response.

## TECHNICAL NOTE

Match Bently Nevada 330180-X1-05 MOD:143416-42 to the documented host and mating interfaces, and record the as-found MOD 143416-42, connections, cable route, shielding and configuration. Restore the approved arrangement and verify diagnostics and controlled channel response before release.

## Model-Specific Acceptance Evidence

| CHECK              | ACCEPTANCE CONDITION                                                     |
|--------------------|--------------------------------------------------------------------------|
| Identity           | 330180-X1-05 MOD:143416-42 recorded                                      |
| Host / carrier     | Bently Nevada 3300 XL 8 mm proximity transducer system                   |
| Physical interface | Conditions the matched eddy-current probe signal                         |
| Configuration      | Review supply, bias, channel and monitor diagnostics after energization. |
| Functional proof   | Complete a controlled response and alarm test before service release.    |

## IMPORTANT NOTICE

Confirm Bently Nevada 330180-X1-05 MOD:143416-42, complete article suffix, installed host, mating components, mounting, connectors, cable route, wiring, shielding, grounding, monitor configuration and controlled functional-test results before commissioning.

## Controlled Release Summary

| RELEASE ITEM     | MODEL-SPECIFIC CONDITION                                              |
|------------------|-----------------------------------------------------------------------|
| Article identity | 330180-X1-05 MOD:143416-42                                            |
| Approved role    | Radial shaft-vibration conditioning                                   |
| Final validation | Complete a controlled response and alarm test before service release. |

# Engineering Precautions

|   |                                                                                              |   |                                                                                                     |
|---|----------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------|
| 1 | Confirm Bently Nevada 330180-X1-05 MOD:143416-42 and the complete installed article marking. | 2 | Place the monitored machine and protection channel in the approved maintenance state.               |
| 3 | Isolate the affected circuit and apply ESD-safe handling.                                    | 4 | Record the installed position, connectors, cable route, shielding and MOD 143416-42 before removal. |
| 5 | Confirm the documented host, mating components and physical interfaces.                      | 6 | Restore the approved mounting, wiring, shielding and monitor configuration.                         |
| 7 | Review supply, bias, channel and monitor diagnostics after energization.                     | 8 | Complete a controlled response and alarm test before service release.                               |

## Related Products on Apter Power

| MODEL                                  | SYSTEM ROLE                 | APTER POWER PAGE                                              |
|----------------------------------------|-----------------------------|---------------------------------------------------------------|
| Bently Nevada<br>330104-00-08-10-02-05 | Related Apter Power product | <a href="#">View Bently Nevada 330104-00-08-10-02-05 page</a> |
| Bently Nevada<br>3500-72M-176449-08    | Related Apter Power product | <a href="#">View Bently Nevada 3500-72M-176449-08 page</a>    |
| Bently Nevada<br>330101-00-66-10-02-CN | Related Apter Power product | <a href="#">View Bently Nevada 330101-00-66-10-02-CN page</a> |
| Bently Nevada<br>330101-00-58-10-02-CN | Related Apter Power product | <a href="#">View Bently Nevada 330101-00-58-10-02-CN page</a> |
| Bently Nevada<br>330104-00-06-05-02-CN | Related Apter Power product | <a href="#">View Bently Nevada 330104-00-06-05-02-CN page</a> |
| Bently Nevada 330930-065-01-05         | Related Apter Power product | <a href="#">View Bently Nevada 330930-065-01-05 page</a>      |
| Bently Nevada<br>330708-00-10-90-02-00 | Related Apter Power product | <a href="#">View Bently Nevada 330708-00-10-90-02-00 page</a> |
| Bently Nevada<br>162381-138-040-90-05  | Related Apter Power product | <a href="#">View Bently Nevada 162381-138-040-90-05 page</a>  |

### MANUFACTURER SOURCE RECORD

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