

INDUSTRIAL AUTOMATION PRODUCT

330180-X1-05 MOD:145004-81

3300 XL 8 mm Proximitior Sensor

Bently Nevada 330180-X1-05 MOD:145004-81 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:145004-81                             |
| 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:145004-81 to the documented host and mating interfaces, and record the as-found MOD 145004-81, connections, cable route, shielding and configuration. Restore the approved arrangement and verify diagnostics and controlled channel response before release.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



330180-X1-05  
MOD:145004-81

# 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:145004-81 to the documented host and mating interfaces, and record the as-found MOD 145004-81, 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:145004-81, 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:145004-81 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 145004-81 before removal. |

## Documented Service Record

| RECORD ITEM        | REQUIRED ENTRY                                         |
|--------------------|--------------------------------------------------------|
| As-found article   | 330180-X1-05 MOD:145004-81                             |
| 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:145004-81 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:145004-81 to the documented host and mating interfaces, and record the as-found MOD 145004-81, 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:145004-81 to the documented host and mating interfaces, and record the as-found MOD 145004-81, 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:145004-81 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:145004-81, 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:145004-81                                            |
| 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:145004-81 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 145004-81 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 330103-00-16-05-02-05           | Related Apter Power product | <a href="#">View Bently Nevada 330103-00-16-05-02-05 page</a>          |
| Bently Nevada 330101-02-60-05-01-05           | Related Apter Power product | <a href="#">View Bently Nevada 330101-02-60-05-01-05 page</a>          |
| Bently Nevada 21000-28-05-00-030-04-02        | Related Apter Power product | <a href="#">View Bently Nevada 21000-28-05-00-030-04-02 page</a>       |
| Bently Nevada 330101-00-18-10-02-05           | Related Apter Power product | <a href="#">View Bently Nevada 330101-00-18-10-02-05 page</a>          |
| Bently Nevada 146054-34-20-02-05              | Related Apter Power product | <a href="#">View Bently Nevada 146054-34-20-02-05 page</a>             |
| Bently Nevada 21504-00-20-10-02               | Related Apter Power product | <a href="#">View Bently Nevada 21504-00-20-10-02 page</a>              |
| Bently Nevada 86517-01-01-01-02               | Related Apter Power product | <a href="#">View Bently Nevada 86517-01-01-01-02 page</a>              |
| Bently Nevada 86517-XX-XX-01-0 2-MOD-159840-1 | Related Apter Power product | <a href="#">View Bently Nevada 86517-XX-XX-01-02-MOD-159840-1 page</a> |

### MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313  
EMAIL sales13@apterpower.com  
WEBSITE www.apterpower.com



330180-X1-05  
MOD:145004-81