

INDUSTRIAL AUTOMATION PRODUCT

330980-70-05

3300 XL NSv Proximitior Sensor

Bently Nevada 330980-70-05 is a 3300 xl nsv proximitior sensor in the 3300 XL NSv Proximity Transducer System. Its complete ordering code identifies the installed mechanical, cable, connector and approval configuration.

| IDENTITY          | VERIFIED VALUE                          |
|-------------------|-----------------------------------------|
| Manufacturer      | Bently Nevada                           |
| Complete model    | 330980-70-05                            |
| Product role      | 3300 XL NSv Proximitior Sensor          |
| System family     | 3300 XL NSv Proximity Transducer System |
| Country of origin | USA                                     |

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



330980-70-05

# Technical Specifications

| PARAMETER              | VERIFIED VALUE                                     |
|------------------------|----------------------------------------------------|
| Component              | Proximitor Sensor                                  |
| System length          | 7.0 m                                              |
| Mounting               | Panel mount                                        |
| Agency approval        | Multiple approvals                                 |
| Sensor input           | One 3300 RAM or 3300 NSv probe and extension cable |
| Power without barriers | -17.5 to -26 V DC; 12 mA maximum                   |
| Power with barriers    | -23 to -26 V DC                                    |

## Model-Specific Engineering Note

### ENGINEERING BOUNDARY

Install 330980-70-05 only with the matched 3300 XL NSv Proximity Transducer System components. Use a probe and extension-cable combination whose total electrical length is exactly 7.0 m. Record the marking, channel, cable route and target before work, then prove gap voltage and dynamic response before release.

## Pre-Installation Checks

| NO. | REQUIRED CHECK                                                                                          |
|-----|---------------------------------------------------------------------------------------------------------|
| 1   | Verify the complete 330980-70-05 order code from the physical marking.                                  |
| 2   | Use only matched 3300 XL NSv Proximity Transducer System probe, cable and Proximitor Sensor components. |
| 3   | Record the existing gap voltage and monitor-channel setup before disturbing the loop.                   |
| 4   | Protect the probe tip, coaxial connectors and cable from impact or contamination.                       |
| 5   | Observe the documented bend radius and do not twist the integral or extension cable.                    |

# System Role and Architecture

Bently Nevada 330980-70-05 is a 3300 xl nsv proximito sensor in the 3300 XL NSv Proximity Transducer System. Its complete ordering code identifies the installed mechanical, cable, connector and approval configuration.

**FUNCTION 1**  
7.0 m NSv system calibration

**FUNCTION 2**  
Panel-mount sensor package

**FUNCTION 3**  
Multiple-approval option

**FUNCTION 4**  
Matched 3300 RAM or NSv input

## Common Applications

| APPLICATION                      | ENGINEERING CONTEXT                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| Radial vibration measurement     | Observes shaft-to-probe motion in a matched proximity transducer loop.                           |
| Axial position monitoring        | Measures controlled thrust or position displacement where the installation geometry is approved. |
| Keyphasor reference              | Supports phase-reference or speed measurement under the manufacturer application guidance.       |
| Machinery protection maintenance | Restores the exact documented component configuration during controlled service work.            |

**CONTROLLED ACCEPTANCE DUTY**  
Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

# Engineering Precautions

| NO. | PRECAUTION                                                                                               |
|-----|----------------------------------------------------------------------------------------------------------|
| 1   | Verify the complete 330980-70-05 order code from the physical marking.                                   |
| 2   | Use only matched 3300 XL NSv Proximity Transducer System probe, cable and Proximitior Sensor components. |
| 3   | Record the existing gap voltage and monitor-channel setup before disturbing the loop.                    |
| 4   | Protect the probe tip, coaxial connectors and cable from impact or contamination.                        |
| 5   | Observe the documented bend radius and do not twist the integral or extension cable.                     |
| 6   | Confirm target material and geometry before setting the final gap.                                       |
| 7   | Keep connector protection and shielding consistent with the selected order options.                      |
| 8   | Prove static gap, dynamic response and channel alarms before release.                                    |

## Model-Specific FAQ — Part 1

| QUESTION                                                            | ANSWER                                                                           |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------|
| What product family must be matched with 330980-70-05?              | Use only components from the documented 3300 XL NSv Proximity Transducer System. |
| Which order-code identity must be recorded for 330980-70-05?        | Record the complete code, not only the base series number.                       |
| What target condition must be verified before gapping 330980-70-05? | Verify material, surface geometry and the approved measurement location.         |
| What must be preserved before removing 330980-70-05?                | Record gap voltage, channel configuration, cable route and connector condition.  |

# Model-Specific FAQ — Part 2

| QUESTION                                                           | ANSWER                                                                                               |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| May its cable be shortened or spliced in service for 330980-70-05? | No unapproved shortening or splicing should be used; maintain the documented system length.          |
| How should the coaxial connection be protected on 330980-70-05?    | Keep it clean, dry and protected with the documented connector arrangement.                          |
| What commissioning checks are required for 330980-70-05?           | Verify identity, continuity, gap voltage, dynamic response and monitor-channel diagnostics.          |
| What evidence should be retained after installing 330980-70-05?    | Retain the order code, installed position, mating components, gap value and functional-test results. |

## Related Products on Apter Power

| MODEL                   | APTER POWER PAGE                  |
|-------------------------|-----------------------------------|
| Bently Nevada 133827-01 | <a href="#">Open product page</a> |
| Bently Nevada 134652-01 | <a href="#">Open product page</a> |
| Bently Nevada 135137-01 | <a href="#">Open product page</a> |
| Bently Nevada 135473-01 | <a href="#">Open product page</a> |
| Bently Nevada 135489-01 | <a href="#">Open product page</a> |
| Bently Nevada 135489-03 | <a href="#">Open product page</a> |
| Bently Nevada 135489-04 | <a href="#">Open product page</a> |
| Bently Nevada 135613-01 | <a href="#">Open product page</a> |

### MANUFACTURER SOURCE RECORD

3300 XL NSv Proximity Transducer System Datasheet  
Baker Hughes publication 147385 Rev. R

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WEBSITE [www.apterpower.com](http://www.apterpower.com)



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