

APTER POWER

PRODUCT REFERENCE MANUAL

330901-11-43-10-02-05

Bently Nevada 3300 XL NSv Proximity Probe

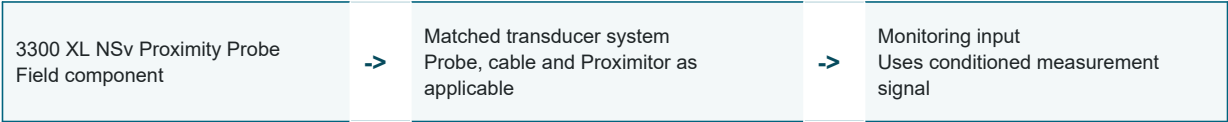
This Apter Power reference manual explains the supplied model, published system function, configuration status, technical data, compatible components and installation checks. It uses manufacturer-published information only.

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1. Product Overview

330901-11-43-10-02-05 is a Bently Nevada 3300 XL NSv non-contacting eddy-current proximity probe with a 1/4-28 UNF threaded case, no armor, 1.1 in unthreaded length, 4.3 in case length, a 1.0 m standard cable, a miniature ClickLoc connector without a protector, and the multiple-approvals option.

With a correctly matched 3300 XL NSv extension cable and Proximitor Sensor, it senses the distance to a conductive target and supports radial vibration, axial or thrust position, Keyphasor reference, tachometer, and zero-speed measurements on machines where mounting clearance is limited.



2. Model Configuration

330901	3300 NSv probe, 1/4-28 UNF thread, without armor.
11	1.1 in unthreaded length.
43	4.3 in overall case length.
10	1.0 m total probe length.
02	Miniature coaxial ClickLoc connector with standard cable; no connector protector.
05	Multiple approvals; verify the installed certification and drawing for the site.

The 05 suffix is an official multiple-approvals option; certification remains installation-specific and must be verified from the nameplate and current drawing.

3. Technical Specifications

Values below are manufacturer-published. System-level values apply only to the complete correctly matched system under the official test conditions.

Manufacturer	Bently Nevada
Product Category	Machinery Monitoring System
Spare Part Number	330901-11-43-10-02-05
Product Type	3300 XL NSv Proximity Probe
Mounting Thread	1/4-28 UNF
Armor	Without armor
Unthreaded Length	1.1 in
Overall Case Length	4.3 in
Total Probe Length	1.0 m (39 in)
Connector and Cable	Miniature ClickLoc connector; standard cable; no connector protector
System Linear Range	1.5 mm (60 mil)
System Scale Factor	7.87 V/mm (200 mV/mil), +12.5%/-20%
Recommended Gap	1.0 mm (40 mil)
Frequency Response	0 to 10 kHz, +0/-3 dB typical
Probe Temperature	-52°C to +177°C (-62°F to +351°F)
Minimum Bend Radius	25.4 mm (1.0 in)
Maximum Thread Engagement	0.375 in for 1/4-28
Recommended Case Torque	5.1 N·m (45 in·lbf)
Reference Target	AISI 4140 steel
Approval Option	05 — Multiple Approvals

4. Compatible Components

- 330930-040-00-05 4.0 m standard NSv extension cable for a 5.0 m total system.
- 330930-060-00-05 6.0 m standard NSv extension cable for a 7.0 m total system.
- 330980-50-05 / 330980-51-05 5.0 m panel or DIN Proximitors Sensors.
- 330980-70-05 / 330980-71-05 7.0 m panel or DIN Proximitors Sensors.

5. Core Functions and Applications

Tight-Clearance Compressors Fits proximity measurement locations where a standard 8 mm probe or mounting arrangement has insufficient clearance.	Centrifugal Air Compressors Supports shaft vibration and position measurements on compact air-compressor trains with compatible targets and mounting geometry.
Refrigeration Compressors Provides non-contacting shaft-motion sensing in refrigeration compressor applications identified by the manufacturer.	Process Gas Compressors Supports vibration, axial-position, and reference measurements on process-gas compressors under the published environmental limits.
Small-Shaft Radial Vibration Measures dynamic shaft motion with the complete, correctly matched NSv transducer system.	Keyphasor and Speed Supports phase reference, tachometer, and zero-speed applications when target geometry and monitoring input meet official guidance.

6. Installation and Commissioning Checklist

- Match probe length plus extension-cable length to the Proximity Sensor total length.
- Maintain the 25.4 mm minimum cable bend radius.
- Do not exceed 0.375 in thread engagement or the published case torque.
- Set the system gap near 1.0 mm using the intended target and complete connected system.
- Confirm the multiple-approval marking and applicable installation drawing before hazardous-area use.

This Apter Power manual is a selection aid. It does not replace manufacturer installation drawings, certification documents, site procedures or qualified engineering review.

7. Model-Specific FAQ

1 What is the Bently Nevada 330901-11-43-10-02-05?

It is an unarmored 3300 XL NSv proximity probe with 1/4-28 UNF threads, a 1.1 in unthreaded section, 4.3 in case, 1.0 m standard cable, ClickLoc connector, and multiple approvals.

2 What does its ordering code mean?

330901 identifies the 1/4-28 UNF unarmored probe; 11 and 43 define the case dimensions; 10 is 1.0 m; 02 is standard cable with ClickLoc and no protector; 05 is multiple approvals.

3 What does the probe measure?

With the matched NSv system, it supports radial vibration, axial or thrust position, Keyphasor reference, tachometer, and zero-speed measurements.

4 Which system lengths are compatible?

Use a 4.0 m extension cable with the 1.0 m probe for a 5.0 m system, or a 6.0 m extension cable for a 7.0 m system, with the corresponding Proximitor Sensor.

5 What is the nominal linear range?

The complete matched NSv system has a 1.5 mm linear range and a nominal 7.87 V/mm scale factor under manufacturer conditions.

6 Where is the NSv probe commonly applied?

The manufacturer identifies tight-clearance machinery, centrifugal air compressors, refrigeration compressors, process gas compressors, and small-shaft measurements.

7 What cable limits matter?

Maintain at least a 25.4 mm bend radius, protect the ClickLoc connection, and keep the full system length matched.

8 Does suffix 05 prove a specific site approval?

It is the official multiple-approvals option, but the actual nameplate, current certificate, barriers, wiring, and installation drawing must still be verified.

8. Lifecycle and Approval Status

Baker Hughes publishes the 3300 XL NSv system datasheet 147385 Rev. R and lists the 330901 probe family in current ordering information. No separate lifecycle phase is published for this complete suffix.

The 05 suffix is an official multiple-approvals option; certification remains installation-specific and must be verified from the nameplate and current drawing.

9. Official Manufacturer Sources

Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R

<https://dam.bakerhughes.com/m/7a79b853504f738/original/3300-XL-NSv-Proximity-Transducer-System-Datasheet-147385-pdf.pdf>

Source-access date: 12 August 2026. Manufacturer document revisions may change. Confirm the current revision before use.

10. Apter Power Support

Seller	Apter Power
Website	https://www.apterpower.com
Product page	https://www.apterpower.com/Bently-Nevada/330901-11-43-10-02-05
Email	sales13@apterpower.com
Phone / WhatsApp	+86 180 3023 5313
Quotation note	Confirm nameplate, condition, included accessories and approval requirement.

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