

APTER POWER

PRODUCT REFERENCE MANUAL

330980-71-BR

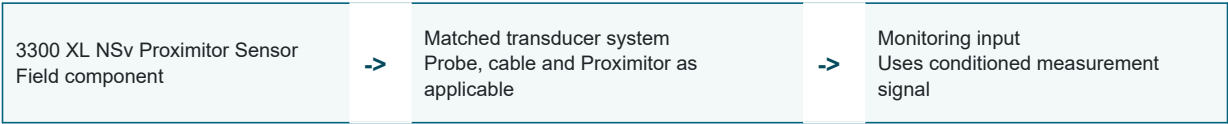
Bently Nevada 3300 XL NSv Proximitior Sensor

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

330980-71-BR is a Bently Nevada 3300 XL NSv Proximito Sensor configured for a 7.0 m total transducer system, DIN-rail mounting, and the BR country-specific approval option listed for the 330980 family in the official approvals guide. It energizes the matched NSv probe, demodulates and conditions the eddy-current signal, and produces a voltage proportional to probe-tip distance from the conductive target for vibration, position, Keyphasor, tachometer, or zero-speed monitoring channels.



2. Model Configuration

330980	3300 XL NSv Proximito Sensor.
71	7.0 m total system length, DIN mount.
BR	Brazil country-specific approval option; available for 330980 in Approvals Guide 108M1756 Rev. AV.

BR is supported for the 330980 family by official Approvals Guide 108M1756 Rev. AV; the product nameplate and certificate remain controlling.

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	330980-71-BR
Product Type	3300 XL NSv Proximitors Sensor
System Length	7.0 m (23.0 ft)
Mounting	35 mm DIN rail
Approval Option	BR — Brazil country-specific option
Linear Range	1.5 mm (60 mil), complete 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
Power Input	-17.5 to -26 Vdc without barriers
Maximum Consumption	12 mA
Output Resistance	50 ohms
Field Wiring	3-conductor shielded; up to 305 m
Operating Temperature	-52°C to +100°C (-62°F to +212°F)
Storage Temperature	-52°C to +105°C (-62°F to +221°F)
Sensor Weight	Approximately 255 g (9 oz)
Reference Target	AISI 4140 steel
Official Approval Reference	108M1756 Rev. AV

4. Compatible Components

- 330901/330902/330903/330904/330905/330908/330909/330910 NSv probes, selected for the application.
- For a 7 m system: 0.5 m probe plus 6.5 m 330930 cable, or 1.0 m probe plus 6.0 m 330930 cable.
- 138493-01 replacement DIN-mount pad.
- 02120015 three-conductor shielded field wire.

5. Core Functions and Applications

Compressor Monitoring Cabinets DIN-rail installation connects NSv probe circuits to machinery protection or condition-monitoring channels.	Small-Shaft Vibration Conditions radial vibration signals from NSv probes installed on compact rotating shafts.
Axial and Thrust Position Converts probe-to-target gap changes into a usable voltage for small-target position monitoring.	Keyphasor Reference Provides the conditioned pulse or reference waveform used by a compatible phase-reference input.
Tachometer and Zero Speed Supports speed-related measurements when target geometry and monitoring channel follow manufacturer guidance.	Industrial Field Wiring Drives up to 305 m of shielded field wiring between the Proximitor Sensor and compatible monitor input.

6. Installation and Commissioning Checklist

- Use only NSv probes and cables whose lengths add to 7.0 m.
- Mount on the specified DIN rail with adequate enclosure protection.
- Use shielded three-conductor field wiring and observe grounding requirements.
- Do not apply more positive supply voltage than the published limit because linear range may be reduced.
- Confirm BR marking, current Brazilian certification, 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 330980-71-BR?

It is a 3300 XL NSv Proximito Sensor for a 7.0 m total system, with DIN mounting and the BR country-specific approval option.

2 What does code 71 mean?

It specifies a 7.0 m total transducer system and DIN-rail mounting.

3 What does the Proximito Sensor do?

It energizes the probe and converts the eddy-current impedance change into a voltage proportional to target distance.

4 Which probe and cable lengths are compatible?

Use an NSv probe and 330930 extension cable that add to 7.0 m, such as 0.5 + 6.5 m or 1.0 + 6.0 m.

5 What signals can it support?

The conditioned output supports shaft vibration, position, Keyphasor reference, tachometer, and zero-speed applications when correctly engineered.

6 What does BR mean?

BR is the Brazil country-specific approval ordering option listed as available for 330980 in official guide 108M1756 Rev. AV.

7 How far can the field wiring run?

The manufacturer publishes up to 305 m between the Proximito Sensor and monitor using appropriate three-conductor shielded wiring.

8 What must be verified before hazardous-area use?

Check the physical nameplate, current Brazilian approval certificate, barrier or isolator parameters, enclosure protection, and the applicable installation drawing.

8. Lifecycle and Approval Status

Baker Hughes publishes the 3300 XL NSv system datasheet and lists 330980 in current ordering information. The official approval guide lists BR as available for 330980; verify the revision and nameplate before regulated use.

BR is supported for the 330980 family by official Approvals Guide 108M1756 Rev. AV; the product nameplate and certificate remain controlling.

9. Official Manufacturer Sources

Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R and 108M1756 Rev. AV

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

Bently Nevada Approvals Quick Reference Guide, 108M1756 Rev. AV

<https://dam.bakerhughes.com/m/2bf5dd5f301c947a/original/Approvals-Quick-Reference-Guide-Country-Specific-Ordering-Options-108M1756-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/330980-71-BR
Email	sales13@apterpower.com
Phone / WhatsApp	+86 180 3023 5313
Quotation note	Confirm nameplate, condition, included accessories and approval requirement.

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