

APTER POWER PRODUCT MANUAL

330901-00-55-05-02-05

Bently Nevada 3300 XL NSv unarmored proximity probe

The 330901-00-55-05-02-05 is a Bently Nevada 3300 XL NSv non-contacting eddy-current proximity probe with a 1/4-28 UNF threaded case, no armor, 0.0 in unthreaded length, a 5.5 in overall case, a 0.5 m standard lead, a ClickLoc connector without a protector, and multiple approvals.

With a matching 4.5 m 330930 extension cable and 5 m 330980 Proximitor Sensor, it forms the compact NSv system that converts probe-to-target gap into a voltage for vibration, axial or radial position, Keyphasor, tachometer, and zero-speed measurements where side-view, rear-view, or target clearance is restricted.

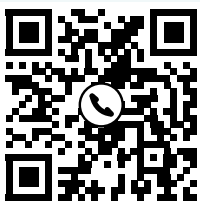
Manufacturer	Bently Nevada
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Compact target access. Verified five-metre matching.

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



SCAN FOR PRODUCT & QUOTE
330901-00-55-05-02-05

1. Product Overview and Identity

The 330901-00-55-05-02-05 is a Bently Nevada 3300 XL NSv non-contacting eddy-current proximity probe with a 1/4-28 UNF threaded case, no armor, 0.0 in unthreaded length, a 5.5 in overall case, a 0.5 m standard lead, a ClickLoc connector without a protector, and multiple approvals.

With a matching 4.5 m 330930 extension cable and 5 m 330980 Proximitor Sensor, it forms the compact NSv system that converts probe-to-target gap into a voltage for vibration, axial or radial position, Keyphasor, tachometer, and zero-speed measurements where side-view, rear-view, or target clearance is restricted.

Model Configuration

Code	Official configuration
330901	1/4-28 UNF NSv probe without armor.
00	0.0 in unthreaded length.
55	5.5 in overall case length.
05	0.5 m total probe length.
02	ClickLoc connector without protector; standard cable.
05	Multiple approvals.

Key Features

- The 5.5 in case reaches tight machine locations while retaining the small NSv tip and narrow side-view geometry.
- A 0.5 m lead pairs with a 4.5 m extension cable for a 5 m NSv system.
- The unarmored lead supports protected routing through restrictive housings.
- Final option 05 selects the official multiple-approvals configuration.

2. Technical Specifications

Only manufacturer-published information is stated. A value absent for the exact complete suffix is identified rather than inferred.

Parameter	Verified value
Product Type	3300 XL NSv unarmored proximity probe
Mounting Thread	1/4-28 UNF
Armor	None
Unthreaded Length	0.0 in
Overall Case Length	5.5 in
Total Probe Length	0.5 m (20 in)
Connector and Cable	ClickLoc without protector; standard cable
Approval Option	05 - multiple approvals
Published Probe Weight Range	Approximately 14 to 150 g; exact configured mass is not separately published
Linear Range	1.5 mm (60 mil)
Nominal Scale Factor	7.87 V/mm (200 mV/mil)
Frequency Response	0 to 10 kHz, +0/-3 dB typical
Minimum Cable Bend Radius	25.4 mm (1.0 in)
Maximum Thread Engagement	0.375 in for 1/4-28
Probe Operating Temperature	-52 C to +177 C (-62 F to +351 F); see pressure-seal caution

Verification Note

Match this 0.5 m probe to a 4.5 m NSv extension cable and 5 m 330980 sensor. Verify 1/4-28 engagement, long-case clearance, target geometry, final gap, and approvals.

3. Functions, Applications and Components

Core Functions

- Measures non-contacting gap to a conductive shaft or target.
- Supports radial vibration and radial-position measurement on small shafts.
- Supports axial position, Keyphasor, tachometer, and zero-speed applications.
- Provides a compact transducer-system input where standard 5 mm or 8 mm probe clearances are unavailable.

Application Areas

Application	System role
Centrifugal Air Compressors	Fits narrow counterbores and tight probe locations.
Refrigeration Compressors	Measures shaft vibration and position where machine clearances are limited.
Process Gas Compressors	Supports non-contacting small-shaft monitoring.
Small Targets	Measures axial position on targets smaller than those recommended for standard 8 mm systems.
Keyphasor Locations	Provides phase reference from a suitable notch or projection.
Tachometer and Zero Speed	Supports rotational-speed measurements with compatible channels.

Compatible Components

- A 4.5 m 330930 NSv extension cable so the probe and cable total 5 m.
- A 5 m 330980 NSv Proximitator Sensor with the required mounting option and matching approval status.
- 1/4-28 mounting hardware with no more than 0.375 in thread engagement.
- Monitoring channels configured for the 3300 XL NSv transducer-system output.

Lifecycle Status

Baker Hughes currently publishes Datasheet 147385 Rev. R and lists all six ordering fields used by this exact complete model. No separate exact-suffix lifecycle statement is published.

4. Installation Precautions

- Use a 4.5 m NSv extension cable and 5 m 330980 Proximity Sensor; do not mix 50 ohm and 75 ohm system families.
- Limit 1/4-28 thread engagement to 0.375 in and verify the long 5.5 in case has adequate side-view and rear-view clearance.
- Maintain a 25.4 mm minimum bend radius and protect the unarmored 0.5 m lead.
- Avoid sustained probe exposure below -34 C because the manufacturer warns of premature pressure-seal failure.
- Verify option 05 approval markings, barriers, entity parameters, and the current installation drawing before hazardous-area use.

STOP - Verify before installation

Match this 0.5 m probe to a 4.5 m NSv extension cable and 5 m 330980 sensor. Verify 1/4-28 engagement, long-case clearance, target geometry, final gap, and approvals.

Use the physical nameplate and current Bently Nevada documents as the controlling records.

5. Official Source and Use Notice

Official source

Baker Hughes / 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>

Apter Power product page

<https://www.apterpower.com/Bently-Nevada/330901-00-55-05-02-05>

Use Notice

This original Apter Power product-specific reference is prepared from the named Bently Nevada source. It is not a Bently Nevada publication and does not replace the original datasheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.