TECHNICAL & APPROVAL REFERENCE

# 330903-00-05-10-01-00-CN

## Bently Nevada 3300 XL NSv Proximity Probe

This model-specific reference summarizes the exact ordering-code configuration and the system-level values stated in Baker Hughes document 147385 Rev. R. Verify the supplied nameplate and the latest manufacturer documentation before ordering or replacement.

| | |
|---|---|
| **Manufacturer** | Bently Nevada / Baker Hughes |
| **Probe family** | 330903 - 3300 XL NSv |
| **Mounting** | M8 x 1 - Unarmored |
| **Case length** | 50 mm; 0 mm unthreaded |
| **Total probe length** | 1.0 m (39 in) |
| **Connection** | Miniature ClickLoc; standard cable; connector protector included |
| **Approval option** | CN - China hazardous-area option; verify nameplate and certificate scope |

## Ordering and identity checks

- Match the complete ordering code character for character.
- Compare the delivered nameplate with the required mounting, case, cable and connector configuration.
- Confirm cable routing, connector clearance and the installed transducer-system length.
- For regulated installations, verify the nameplate approval markings and certificate scope.

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# 3300 XL NSv system reference data

The values below apply to a correctly configured complete 3300 XL NSv transducer system under the manufacturer test and installation conditions. They are not standalone probe-only performance claims.

| | |
|---|---|
| **Nominal scale factor** | 7.87 V/mm (200 mV/mil) |
| **Linear range** | 1.5 mm (60 mil) |
| **Recommended gap** | 1.0 mm (40 mil) |
| **Typical frequency response** | 0 to 10 kHz (+0/-3 dB) |
| **Probe tip material** | Polyphenylene sulfide (PPS) |
| **Probe case material** | AISI 304 stainless steel |

## Matched system requirements

The 1.0 m probe is used with an extension cable so the combined electrical length matches the 5 m or 7 m Proximitor Sensor system length. Typical combinations are 1 m + 4 m or 1 m + 6 m.

Compatibility must be checked as a complete measurement chain: probe, appropriate cabling, 3300 XL NSv Proximitor Sensor and connected monitoring hardware.

## Typical system applications

- Radial vibration and radial position
- Axial thrust position
- Tachometer and zero-speed measurements
- Keyphasor phase-reference signals
- Compact compressor and fluid-film bearing installations

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# Approval and procurement checklist

## CN option

The Baker Hughes approvals guide identifies CN for hazardous-area use in China and describes NEPSI/CCC coverage as applicable, with ATEX/IECEx markings as applicable. The actual product label and certificate scope remain controlling.

## Before purchase or replacement

- Request clear current photos of the complete nameplate and ordering code.
- Confirm mounting thread, armor, case length, cable length and connector option.
- Verify target material, probe gap and mechanical clearances against the current manufacturer manual.
- Confirm the matched system length, Proximitor Sensor and monitoring-system compatibility.
- For approval-controlled installations, obtain and review the applicable certificate before installation.

## Official manufacturer references

Baker Hughes / Bently Nevada, 3300 XL NSv Proximity Transducer System Datasheet, document 147385 Rev. R.

Baker Hughes / Bently Nevada, Approvals Quick Reference Guide - Country Specific Ordering Options, document 108M1756 Rev. AV.

### Source URLs:

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

https://dam.bakerhughes.com/asset/39aafea9-7f77-4a1e-aae3-04783ae5aca9/Approvals-Quick-Reference-Guide-Country-Specific-Ordering-Options-108M1756-pdf.pdf

MOORE AUTOMATION - www.dcsmodule.com

CONTACT MOORE AUTOMATION

**plcsale@mooreplc.com | +86 18030235313 | www.dcsmodule.com**