

APTER POWER PRODUCT MANUAL

330910-00-06-70-02-05

Bently Nevada 3300 XL NSv armored M10 x 1 proximity probe

The 330910-00-06-70-02-05 is a Bently Nevada 3300 XL NSv non-contacting eddy-current proximity probe. Its complete code specifies M10 x 1 standard mounting, stainless-steel armor, 0 mm unthreaded length, a 60 mm overall case, an integral 7.0 m (23.0 ft) standard cable, a ClickLoc connector without protector, and the multiple-approvals option.

Connected to the matching 330980 Proximitor Sensor, the probe detects the gap to a conductive shaft or target and the sensor converts that gap into a voltage. The compact NSv system supports radial vibration and position, axial thrust position, Keyphasor phase reference, tachometer, and zero-speed measurements on machines with limited side-view, rear-view, or target clearance.

|              |                                          |
|--------------|------------------------------------------|
| Manufacturer | Bently Nevada                            |
| Prepared by  | Apter Power                              |
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| Revision     | R1                                       |
| Issue date   | 2026-08-20                               |

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Seven metres. M10 strength. NSv clearance.

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330910-00-06-70-02-05

# 1. Product Overview and Identity

The 330910-00-06-70-02-05 is a Bently Nevada 3300 XL NSv non-contacting eddy-current proximity probe. Its complete code specifies M10 x 1 standard mounting, stainless-steel armor, 0 mm unthreaded length, a 60 mm overall case, an integral 7.0 m (23.0 ft) standard cable, a ClickLoc connector without protector, and the multiple-approvals option.

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## Model Configuration

| Code   | Official configuration                                |
|--------|-------------------------------------------------------|
| 330910 | M10 x 1 3300 NSv standard-mount probe with armor.     |
| 00     | 0 mm unthreaded length.                               |
| 06     | 60 mm overall case length.                            |
| 70     | 7.0 m (23.0 ft) total probe length.                   |
| 02     | ClickLoc connector without protector; standard cable. |
| 05     | Multiple approvals ordering option.                   |

## Key Features

- 60 mm ordered case geometry distinguishes this configuration from other M10 x 1 NSv probes.
- 7.0 m (23.0 ft) integral lead eliminates an extension cable when paired with the same-length 330980 sensor.
- Armored construction adds mechanical protection for exposed cable routing.
- The compact NSv coil and target requirements suit restricted mounting locations and small shafts.

## 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 armored M10 x 1 proximity probe                                                             |
| Mounting Thread                 | M10 x 1                                                                                                 |
| Armor                           | Stainless steel armor with jacket                                                                       |
| Unthreaded Length               | 0 mm                                                                                                    |
| Overall Case Length             | 60 mm                                                                                                   |
| Total Probe Length              | 7.0 m (23.0 ft)                                                                                         |
| Connector and Cable             | ClickLoc without protector; standard cable                                                              |
| Approval Option                 | 05 - multiple approvals                                                                                 |
| Matched-System Linear Range     | 1.5 mm (60 mil)                                                                                         |
| Recommended Gap                 | 1.0 mm (40 mil)                                                                                         |
| Nominal Scale Factor            | 7.87 V/mm (200 mV/mil), with published tolerance                                                        |
| Frequency Response              | 0 to 10 kHz, +0/-3 dB typical                                                                           |
| Probe Tip Diameter              | 5.3 mm (0.21 in) nominal family size                                                                    |
| Recommended Minimum Flat Target | 13 mm (0.5 in) diameter                                                                                 |
| Probe Operating Temperature     | -52 C to +177 C (-62 F to +351 F)                                                                       |
| Minimum Cable Bend Radius       | 25.4 mm (1.0 in)                                                                                        |
| Maximum Thread Engagement       | 15 mm for M10 x 1                                                                                       |
| Published Probe Weight          | Approximately 14 to 150 g across standard configurations; exact suffix mass is not separately published |

### Verification Note

Match the integral 7.0 m (23.0 ft) probe directly to the same-length 330980 sensor. Verify M10 x 1 engagement, target geometry, final electrical gap, cable routing, and approval evidence.

## 3. Functions, Applications and Components

### Core Functions

- Measures non-contacting probe-to-target distance.
- Provides dynamic shaft-vibration and radial-position information through the matched sensor.
- Supports static axial or thrust-position measurement.
- Supports Keyphasor, tachometer, and zero-speed signals with suitable targets and monitoring channels.

### Application Areas

| Application                  | System role                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------|
| Compact Compressors          | Fits restricted probe locations on centrifugal air, refrigeration, and process-gas compressors. |
| Small-Shaft Radial Vibration | Measures shaft motion where standard 8 mm probe clearance is limited.                           |
| Axial Position               | Tracks thrust movement against a suitable flat target.                                          |
| Keyphasor Reference          | Provides phase reference from a suitable notch or projection.                                   |
| Tachometer Service           | Supports speed measurement with correct target geometry and monitor setup.                      |
| Zero-Speed Detection         | Supports low-speed or stopped-shaft indication through a compatible monitoring channel.         |

### Compatible Components

- Use a 7.0 m 330980 NSv Proximator Sensor; this integral 7.0 m probe connects directly without an extension cable.
- A 330980 NSv Proximator Sensor with option 05 or another approval code supported by the installation.
- M10 x 1 mounting hardware within the manufacturer thread-engagement limit.
- A Bently Nevada monitoring channel configured for the matched NSv system output.

### Lifecycle Status

Baker Hughes currently publishes Datasheet 147385 Rev. R and lists every standard ordering field used in 330910-00-06-70-02-05. No separate lifecycle phase is published for this exact suffix.

## 4. Installation Precautions

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- Use a 7.0 m 330980 NSv Proximity Sensor; this integral 7.0 m probe connects directly without an extension cable.
- Limit M10 x 1 engagement to 15 mm and follow the official mounting instructions.
- Maintain the 25.4 mm minimum cable bend radius and protect the armor, connector, and cable transition from impact or crushing.
- Set the final gap electrically against the actual target; do not rely only on the mechanical distance.
- Confirm the physical option-05 marking, current certificate, barriers, and installation drawing before hazardous-area use.

STOP - Verify before installation

Match the integral 7.0 m (23.0 ft) probe directly to the same-length 330980 sensor. Verify M10 x 1 engagement, target geometry, final electrical gap, cable routing, and approval evidence.

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

## 5. Official Source and Use Notice

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### 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/330910-00-06-70-02-05>

### 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](http://www.apterpower.com) or contact [sales13@apterpower.com](mailto:sales13@apterpower.com).