# Bently Nevada 330905-00-05-05-02-05

Complete Product Information

Bently Nevada 330905-00-05-05-02-05 is a M10 x 1 unarmored NSv probe for restricted mounting and small-target measurement in a matched NSv chain.

## 01 Product identity and verified data

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|---|---|
| **Complete model** | 330905-00-05-05-02-05 |
| **Product type** | 3300 XL NSv proximity probe |
| **Manufacturer** | Bently Nevada |
| **Technical source** | Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R |
| **Probe family** | 3300 XL NSv |
| **Mounting thread** | M10 x 1 |
| **Cable armor** | No armor |
| **Unthreaded length** | 0 mm |
| **Overall case length** | 50 mm |
| **Total probe length** | 0.5 m |
| **Connector** | Miniature coaxial ClickLoc, standard cable |
| **Approval selection** | Multiple approvals |

## Engineering purpose

Bently Nevada 330905-00-05-05-02-05 is a M10 x 1 unarmored NSv probe for restricted mounting and small-target measurement in a matched NSv chain.

## Selected order-code snapshot

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|---|---|
| **Selected mechanics** | M10 x 1; 0 mm unthreaded reach; 50 mm case. |
| **Lead interface** | 0.5 m lead; Miniature coaxial ClickLoc, standard cable. |
| **NSv role** | Reduced side-view and small-target measurement in a matched 5 m or 7 m chain. |

## 02 Technical capability and engineering overview

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| **Nominal probe resistance** | 4.0 +/- 0.5 ohm |
| **Cable impedance** | 75 ohm |
| **Probe tip material** | PPS |
| **Case material** | AISI 304 stainless steel |

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|---|---|
| **Connector material** | Gold-plated brass |
| **Probe tensile strength** | 220 N maximum |
| **Matched-system lengths** | 5 m or 7 m |
| **Matched-system range** | 1.5 mm |
| **Matched-system scale** | 7.87 V/mm (200 mV/mil) |
| **Recommended gap** | 1.0 mm |
| **Frequency response** | 0 to 10 kHz, +0/-3 dB typical |

## Evidence boundary

Order-code values apply to the selected part. Published system performance applies only to the complete matched chain under the stated reference conditions.

## Engineering overview

The M10 x 1 body, 0 mm unthreaded reach and 50 mm case position the NSv sensing tip in restricted counterbore or side-view installations. Compare them with the machine drawing and target travel before removal.

The 0.5 m, 75-ohm probe lead terminates in miniature coaxial clickloc, standard cable. Probe lead plus extension cable must equal the 5 m or 7 m Proximitor selection, so cable length is part of the calibrated configuration.

NSv range and scale are characterized for the complete matched system. Acceptance also checks target size, nearby conductive surfaces, probe spacing, restored gap or bias and the monitor response for the machine.

## Application map

**Radial shaft vibration**

Use the complete matched transducer chain at a documented bearing location to observe shaft motion relative to the probe mounting.

**Axial position**

Aim the probe at an approved conductive thrust target and keep the expected travel inside the characterized linear region.

**Phase reference**

Use only where the installed target feature and monitoring channel are approved for once-per-turn phase reference.

**Installed-channel maintenance**

Preserve the recorded probe, extension cable, Proximitor, target material, mounting geometry and monitor assignment.

## 03 System interpretation and selection boundaries

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| **Product boundary** | Apply the listed facts to 330905-00-05-05-02-05 and the documented 3300 XL NSv proximity transducer system context only. |
| **Interface boundary** | Connector, terminal, bus, cable and companion-device assignments must match the installed drawing. |
| **Electrical boundary** | Use exact-model values only; system-level ratings remain conditional on the complete installed configuration. |
| **Configuration boundary** | Switches, jumpers, addresses, firmware and project settings must be reconciled before energization. |
| **Diagnostic boundary** | Interpret indicators and fault states together with measured inputs, outputs and host-system status. |

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| **Acceptance rule** | Use the approved system baseline and maintenance procedure for the final as-left decision. |

## Installed-system context

The offered item is a M10 x 1 unarmored NSv probe; target geometry, probe spacing, extension cable, Proximitor and monitor assignment govern application.

# 04 Lifecycle, offered scope and related references

## Lifecycle status

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|---|---|
| **Exact-model status** | A separate manufacturing or support phase is not assigned to the complete 330905-00-05-05-02-05 order identity. |
| **Installed-family context** | Service planning must preserve the documented 3300 XL NSv proximity transducer system relationship for this installed channel. |
| **Replacement boundary** | Confirm the complete marking and every installed companion component before approving a replacement. |
| **Supply boundary** | Apter Power availability is confirmed independently from the manufacturer lifecycle phase. |

## Available unit details

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| **Offered reference** | Bently Nevada 330905-00-05-05-02-05, M10 x 1 unarmored NSv probe. |
| **Identity check** | Confirm 0 mm unthreaded reach, 50 mm case, 0.5 m lead and the complete connector and approval suffix. |
| **Included items** | Probe only; NSv extension cable, Proximitor, monitor and mounting hardware are separate unless itemized. |

## Source and applicability record

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|---|---|
| **Verified source** | Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R |
| **Applicability boundary** | Order-code values apply to the selected part. Published system performance applies only to the complete matched chain under the stated reference conditions. |
| **Product family** | 3300 XL NSv proximity transducer system |

## Additional related product references

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|---|---|
| **Related product** | Bently Nevada 330930-040-03-00 |
| **Related product** | Bently Nevada 84661-96 |
| **Related product** | Bently Nevada 330102-00-28-10-02-05 |
| **Related product** | Bently Nevada 330104-00-16-10-02-00 |

## Engineering contact



Discuss the exact marking and installed application with Apter Power.
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