# Bently Nevada 330901-00-24-10-11-05

Engineering installation and verification guide

Bently Nevada 330901-00-24-10-11-05 is a 1/4-28 UNF 3300 XL NSv proximity probe without armor, with a 2.4 in case, 1.0 m lead and ClickLoc with protector and FluidLoc cable.

## 01 / Establish the installed identity

Compare the full offered model and any visible revision or approval marks with the removed item, machine drawing and monitor configuration. Capture the original measured baseline before changing the sensing chain.

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|---|---|
| **Transducer family** | 3300 XL NSv |
| **Mounting thread** | 1/4-28 UNF |
| **Lead armor** | None |
| **Unthreaded length** | 0.0 in (00 option) |
| **Overall case length** | 2.4 in |
| **Integral lead length** | 1.0 m |
| **Connector and cable** | ClickLoc with protector and FluidLoc cable |

## 02 / Engineering interface map

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|---|---|
| **1 / machine target** | Start from the actual installed application. |
| **2 / probe** | Confirm fit and identity before energizing. |
| **3 / matched extension / lead** | Confirm fit and identity before energizing. |
| **4 / Proximitor** | Confirm fit and identity before energizing. |
| **5 / monitor** | Confirm fit and identity before energizing. |

## 03 / Installation decisions

**Mechanical fit**

Confirm the 1/4-28 UNF port and 2.4 in reach against the installed drawing.

**Cable route**

Protect the selected cable construction from abrasion, bends and liquid migration.

**Connector integrity**

Inspect the ClickLoc joint and protector for complete engagement.

**Matched sensor**

Match extension length and NSv Proximitor before applying a system scale.

**Target and gap**

Check nearby conductive metal and set the actual operating gap.

**Approval marking**

Verify site approval requirements against the exact supplied label and circuit.

## 04 / Acceptance sequence

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| **Isolate and inspect** | Apply site isolation and inspect the physical part, contacts, seal or route as applicable. |

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|---|---|
| **Fit and connect** | Use the verified mounting and electrical interface; preserve the installed channel design. |
| **Prove response** | Check the relevant gap, bias, pressure or velocity output against the approved site procedure. |
| **Record as left** | Save complete markings, test results, configuration and operating trend before release. |

## 05 / Fault isolation by symptom

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| **How can an NSv channel using 330901-00-24-10-11-05 produce a plausible DC gap but incorrect scale?** | A mismatched extension or Proximitor can alter calibration even with a live voltage. Verify all three part markings and the complete electrical length. |
| **What target change can shift the gap response of 330901-00-24-10-11-05?** | A different alloy or nearby conductive metal changes eddy-current coupling. Recheck the installed target and actual clearance before changing monitor settings. |
| **How should connector contamination on 330901-00-24-10-11-05 be diagnosed?** | Isolate the channel, inspect both ClickLoc surfaces and protector, then compare the disconnected probe resistance with the manufacturer reference. |
| **What can create cross-talk between 330901-00-24-10-11-05 and a nearby probe?** | Tips too close together can couple through the target. Review the manufacturer spacing guidance and compare live channels at their operating gaps. |

## 06 / Engineering review before release

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| **Why should the cable construction of 330901-00-24-10-11-05 be matched during replacement?** | The cable option affects liquid migration protection and routing. Confirm the offered cable and connector against the installed site requirement. |
| **When should the gap of 330901-00-24-10-11-05 be verified again?** | Repeat the as-left gap check after the case position, target, extension or Proximitor changes; use the actual machine target. |
| **Which system conditions affect the high-frequency response with 330901-00-24-10-11-05?** | Field-wire length, termination, load and barriers can roll off dynamic content. Compare the installed arrangement with the applicable NSv response curve. |
| **What evidence completes an as-left check for 330901-00-24-10-11-05?** | Retain complete component markings, electrical length, measured probe resistance, target details, gap voltage and the operating signal trend. |

## Technical basis

Bently Nevada 3300 XL NSv Proximity Transducer System, 147385 Rev. R

Discuss the complete marking and installed application with Apter Power.
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