Bently Nevada 330901-00-10-05-02-00

NSv Proximity Probe

Bently Nevada 330901-00-10-05-02-00 is an unarmored 330901 NSv proximity probe with a 1/4-28 UNF threaded case, 0.5 m total length and a standard miniature ClickLoc connector. It operates in a matched 3300 XL NSv transducer system.

01 Exact product identity

Complete model	330901-00-10-05-02-00
Product type	NSv Proximity Probe
Case	1/4-28 UNF, unarmored
Unthreaded section	0.0 in
Overall case length	1.0 in
Total probe length	0.5 m
Connector	Miniature coaxial ClickLoc, standard cable
Approval option	00 — not required
Condition	Confirmed in quotation

02 Overview

The 330901-00-10-05-02-00 probe carries the NSv sensing tip through a fully threaded 1.0 in case to the measurement point. Its 0.5 m lead reaches the mating NSv extension cable within a calibrated transducer chain.

Case geometry	1/4-28 UNF thread, 0.0 in unthreaded length and 1.0 in overall case length.
Lead and termination	0.5 m total length with a miniature ClickLoc connector and standard cable.
System fit	Unarmored 330901 probe for a matched 3300 XL NSv measurement loop.

03 Technical specification map

Probe thread	1/4-28 UNF
Cable armor	None
Unthreaded case length	0.0 in
Overall case length	1.0 in
Total probe length	0.5 m
Connector	Miniature coaxial ClickLoc; standard cable; no separate protector
Agency approval option	00 — not required
Matched-system linear range	1.5 mm (60 mil)
Matched-system average scale factor	7.87 V/mm (200 mV/mil)
Matched-system recommended gap	1.0 mm (40 mil)

05 Matched-chain engineering

The 330901 prefix identifies the unarmored 1/4-28 UNF NSv probe. Code 00 specifies a fully threaded case, while code 10 specifies a 1.0 in overall case length. Check the installed mounting depth and clearance before replacing a probe.

The 0.5 m total length is selected by code 05. Connector code 02 provides a miniature coaxial ClickLoc connection with standard cable and without a separate connector protector. Preserve the correct matched NSv extension cable and Proximitor Sensor.

Approval code 00 does not request the multiple-approval option. The 1.5 mm range and 7.87 V/mm average scale factor belong to a calibrated matched NSv transducer system, not the standalone probe. Verify the assembled chain against its accepted machine baseline.

06 Component temperature distinction

Probe	−52 °C to +177 °C operating rating; sustained exposure below −34 °C can affect the pressure seal.
Extension cable	−52 °C to +177 °C operating and storage range.
Proximitor Sensor	−52 °C to +100 °C operating range; assess at its actual mounting point.

07 Applications and compatibility

System and supply context: This probe is one component of the calibrated NSv probe, extension cable and Proximitor Sensor combination. The other components are supplied only when itemized.

Application scope: NSv systems suit small shafts and restricted side-view locations when target size, material, installed geometry and complete system length match the application.

Small-shaft radial monitoring

Use an approved matched NSv chain at a fluid-film bearing where shaft diameter or side-view clearance restricts a standard probe.

Axial position channel

Place the tip at an approved thrust target and verify the available linear gap and target width.

Speed or phase reference

Use a suitable target feature and monitor channel when the complete NSv loop is configured for pulse observation.

Existing NSv probe replacement

Retain the 1/4-28 port, 1.0 in case envelope, 0.5 m lead and compatible cable/sensor combination.

08 Product precautions

Confirm the complete marking

Match all five option fields of 330901-00-10-05-02-00 before removal or installation.

Protect the sensing face

Keep the NSv tip and connector away from impact, conductive debris, moisture and unsupported cable load.

Check target geometry

Verify the machine drawing, shaft size and nearby side-view metal for the intended sensing position.

Preserve system length

Record the probe lead and NSv extension cable so the specified total electrical length remains matched.

Control the working gap

Use the approved stopped-machine procedure and check the complete system output against the accepted gap baseline.

Verify the channel

After controlled restoration, compare the bias, dynamic reading and alarm response with the retained channel record.

09 Technical notes

Probe versus system data	The 1.5 mm linear range and 7.87 V/mm scale factor describe the calibrated matched NSv system.
Target boundary	The target material and geometry affect the gap-voltage relation; check the actual installation against the approved baseline.
Temperature boundary	The probe rating and the Proximitor Sensor limit differ; assess each component at its installed location.

10 Engineering questions

How does 330901-00-10-05-02-00 connect to the NSv measuring chain?	Its miniature ClickLoc terminates the standard probe lead. Connect it to the correctly specified NSv extension cable and Proximitor Sensor, then confirm total electrical length.
Why does 330901-00-10-05-02-00 require a matched NSv extension cable?	The probe, cable and Proximitor are calibrated as a system. A mismatched cable length can shift the gap-voltage relationship and invalidate the measurement.
What mounting check matters for 330901-00-10-05-02-00?	Compare the 1/4-28 UNF thread, fully threaded 1.0 in case and planned tip reach with the machine port drawing and installed locknut position.
How should side-view metal be assessed around 330901-00-10-05-02-00?	Check the approved target and nearby conductive surfaces against NSv installation clearances; the small-target advantage does not remove the need for geometric verification.
Can 330901-00-10-05-02-00 be connected to an ordinary 3300 XL 8 mm Proximitor?	Use the approved NSv Proximitor and cable combination for this NSv probe; confirm the existing sensor identity before interchange.
What does the standard-cable ClickLoc selection change on 330901-00-10-05-02-00?	Code 02 selects the miniature connector without a separate protector. Protect the mating surfaces and ensure a secure, clean connection.
How is a working gap verified after installing 330901-00-10-05-02-00?	With the machine in its approved state, compare the complete NSv loop voltage and monitor indication with the accepted gap procedure and baseline.
Which evidence should be retained after replacing 330901-00-10-05-02-00?	Record the full marking, mechanical position, companion cable/sensor identities, as-left gap response and channel indication.

11 Lifecycle status

The manufacturer datasheet lists the 330901 NSv probe family. Current production and support status for this complete option code must be confirmed in the quotation.

Keep the selected case dimensions, total cable length, connector type and approval choice when replacing an installed probe.

12 Available unit details

Offered reference	Bently Nevada 330901-00-10-05-02-00; condition confirmed in quotation.
Identity check	330901-00-10-05-02-00 marking; 1/4-28 UNF unarmored case; 1.0 in case; 0.5 m total lead; standard miniature ClickLoc connector
Included supply	the probe; matching extension cable and Proximitor Sensor are separate unless itemized

13 Buyer information

Review your reference	Send the full 330901-00-10-05-02-00 marking, installed cable and sensor identities, machine location and required quantity.
Confirm the offer	Compare the offered 1/4-28 UNF probe, 0.5 m lead and ClickLoc termination with the existing NSv measuring chain.
Arrange dispatch	Confirm the quantity, delivery address and Swift global dispatch details in the quotation.

14 Commissioning record

Machine / channel	Asset, bearing, channel and controlled drawing
As-found identity	Full probe, cable and Proximitor marking
As-found position	Mounting datum, target and cable route
Gap/bias baseline	Stopped-machine measurement and monitor indication
As-left identity	Replacement 330901-00-10-05-02-00 and companion components
As-left response	Voltage, monitor indication and alarm path
Review and release	Technician, date, supervisor and accepted record

15 Release criteria

Mechanical fit	1/4-28 port, 1.0 in case and target reach agree with the drawing.
Electrical fit	0.5 m lead and matched NSv cable/sensor form the intended length.
Measurement response	Gap/bias and channel indications agree with accepted limits.
Documentation	Model, companion identities, readings and approvals retained.

16 Contact Apter Power

Send the complete 330901-00-10-05-02-00 marking and installed NSv chain details for a product-specific quotation.

sales13@apterpower.com | +86 18030235313

Technical basis: Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R. This Apter Power summary applies the ordering fields to the offered full model and labels shared system ratings.