Bently Nevada 330901-00-30-10-11-05

Complete product information

Bently Nevada 330901-00-30-10-11-05 is a 1/4-28 UNF 3300 XL NSv proximity probe without armor, with a 3.0 in case, 1.0 m lead and ClickLoc with protector and FluidLoc cable.

Product and offer identity

Complete part number	330901-00-30-10-11-05
Product type	3300 XL NSv Proximity Probe
Condition	New, original product
Shipping	Swift global dispatch
Shipping size (est.)	1.2cm x 1cm x 117cm
Weight	0.05 kg
Country of origin	USA
Tariff reference	8537101190
Ships from	Xiamen, Fujian, China

Technical specifications

Transducer family	3300 XL NSv
Mounting thread	1/4-28 UNF
Lead armor	None
Unthreaded length	0.0 in (00 option)
Overall case length	3.0 in
Integral lead length	1.0 m
Connector and cable	ClickLoc with protector and FluidLoc cable
Approval option	Multiple approvals (05)
Matched-system linear range	1.5 mm (60 mils)
Recommended matched-system gap	1.0 mm (40 mils)
Probe operating range	-52 to +177 deg C

Overview

The NSv order code fixes a 1/4-28 UNF probe with 3.0 in case length and zero unthreaded reach. Its 1.0 m lead uses ClickLoc with protector and FluidLoc cable; the 05 tail selects the manufacturer multiple-approvals ordering option.

An NSv probe is one component of the calibrated probe, extension and Proximitor chain. The manufacturer 1.5 mm linear range and 1.0 mm recommended gap are complete-system reference values, not a standalone output specification for this probe.

Set the sensing position against the actual conductive target and machine clearance. Preserve the installed total electrical length, cable termination and monitor scaling when replacing a probe.

Applications and compatibility

Tight machine clearance

Use the NSv probe at a documented narrow sensing location where a conventional tip geometry is unsuitable.

Radial shaft vibration

Observe shaft motion at a bearing location with a matched NSv channel and verified probe spacing.

Axial position

Measure thrust movement only with sufficient travel inside the calibrated NSv linear span.

Maintenance replacement

Compare thread, case reach, cable construction and approval marking with the removed probe before energizing.

Product precautions

Mechanical fit

Confirm the 1/4-28 UNF port and 3.0 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.

Buyer information

Send the exact complete marking, application, quantity and required delivery destination. Confirm the offered condition and included items in the written quotation; shipment details are established with the order.

Lifecycle and available-unit details

The current manufacturer lifecycle phase for this exact complete ordering identity is not established here. Review the installed machine configuration before a replacement decision.

The offered unit is New, original product. Request available label and connector photographs for comparison with the installed part before approving the supply scope.

Engineering questions

How can an NSv channel using 330901-00-30-10-11-05 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 330901-00-30-10-11-05?	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 330901-00-30-10-11-05 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 330901-00-30-10-11-05 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.

Why should the cable construction of 330901-00-30-10-11-05 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 330901-00-30-10-11-05 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 330901-00-30-10-11-05?	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 330901-00-30-10-11-05?	Retain complete component markings, electrical length, measured probe resistance, target details, gap voltage and the operating signal trend.

Additional technical criteria

Reference target	The manufacturer system reference uses AISI 4140 steel.
System span	The 60 mil linear region starts near a 10 mil gap and extends toward 70 mil.
Nominal gap	The NSv system reference recommends 40 mil (1.0 mm).
Gap voltage interval	The reference linear interval is approximately -1 to -13 Vdc.
Probe environment	The probe operating range is -52 to +177 deg C.
Sensor environment	The NSv Proximitor operating limit is +100 deg C.
Cable matching	Probe plus extension length must equal the selected Proximitor system length.
Field response	Long field wiring can reduce high-frequency response despite a valid DC gap.

Engineering integration decisions

Sensing position	Set the tip against the approved conductive target without losing clearance over the full machine motion.
Electrical length	Preserve the selected probe and extension length as one calibrated NSv chain.
Cable protection	Route the FluidLoc cable away from abrasion, pinch points and liquid collection at the connector.
Scale boundary	Interpret monitor voltage using the matched NSv system and its approved target material.
As-left gap	Retain the operating gap voltage and machine baseline after fitting the replacement.

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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