330908-22-31-10-01-05

3300 XL NSv Proximity Probe

Bently Nevada 330908-22-31-10-01-05 is a 3/8-24 UNF NSv proximity probe configured for restricted-clearance and small-target measurements.

Executive product dashboard

Restricted-clearance sensing

The NSv geometry supports measurement points where standard 5 mm and 8 mm side-view space is limited.

Small-target capability

The documented system can work with smaller shafts and flat targets when spacing and gap limits are respected.

Protected field connection

The selected connector protector shields the ClickLoc joint during routing and service.

Exact order-code identity

Probe family	3300 XL NSv
Unthreaded length	2.2 in
Overall case length	3.1 in
Total probe length	1.0 m
Connector and cable option	01 - ClickLoc with protector, standard cable
Agency approval option	05 - Multiple approvals
Probe thread	3/8-24 UNF-2A
Probe construction	Standard mount, without armor

The 330908 body uses a 3/8-24 UNF thread without armor. This order code provides 2.2 in of unthreaded reach inside a 3.1 in case, so the installed sleeve and target clearance must be recorded before the probe is disturbed.

Configuration and technical capability map

Cable construction	75 ohm triaxial, FEP insulated
System scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz, +0/-3 dB typical
Minimum cable bend radius	25.4 mm

System linear range	1.5 mm (60 mils), matched NSv system
Recommended gap	1.0 mm (40 mils)
Recommended flat target	13 mm diameter minimum

Installed signal or connection path



System interpretation boundary

A 1.0 m standard FEP-insulated triaxial lead terminates in a ClickLoc connector with protector. The probe is one element of an NSv system that also requires the correct extension cable and Proximitor Sensor electrical length.

NSv performance is specified for the complete matched chain and the stated AISI 4140 target conditions. Target diameter, counterbore and spacing to adjacent probes can change scale factor or cross-talk, so commissioning must include gap and response checks.

Applications and installed-fit decisions

Small-shaft radial vibration

Use the documented target and spacing limits when the shaft is below standard 8 mm-system geometry.

Restricted counterbores

Check counterbore diameter and operating gap before finalizing the installed position.

Axial-position targets

Maintain target flatness and adequate tip separation for the required travel.

Keyphasor duty

Confirm the target feature and receiving-channel settings for phase-reference or speed use.

Engineering decision matrix

When is 330908-22-31-10-01-05 preferable to a standard 8 mm probe?	Use it where counterbore, side-view, rear-view or target-size restrictions require the smaller NSv geometry.
How is the 2.2 in unthreaded reach of 330908-22-31-10-01-05 verified?	Record the installed datum, locknut position and target distance before removal, then reproduce them with the 3.1 in case.
What target diameter should be planned for 330908-22-31-10-01-05?	A 13 mm flat target is the recommended minimum; smaller targets can alter scale factor and require application review.
How should adjacent 330908-22-31-10-01-05 probes be spaced?	Use the NSv guidance for tip separation and shaft geometry; small shafts may require axial offset to limit cross-talk.

Applications must be evaluated against the exact installed machine drawing, target, companion hardware and receiving channel. Related product references do not imply substitution.

Product precautions and maintenance logic

Retain the 2.2 in reach

Measure the original insertion datum and locknut position before removal.

Check the 3.1 in case fit

Verify the complete port and bracket depth, not only the thread size.

Protect the narrow tip

Keep the sensing face free from impact, contamination and side loading.

Control probe spacing

Review adjacent probe geometry to limit cross-talk on small shafts or axial targets.

Preserve connector protection

Seat the ClickLoc joint finger-tight and refit the protector without pinching the cable.

Commission the NSv chain

Set live gap and compare the restored channel with its accepted baseline.

Additional technical questions

What is protected by option 01 on 330908-22-31-10-01-05?	The ClickLoc probe-to-extension connection receives a connector protector over the standard cable joint.
Can the 1.5 mm range of 330908-22-31-10-01-05 be assigned to the probe alone?	No. It is a matched-system value under the documented target, gap, supply and temperature conditions.
How is 330908-22-31-10-01-05 commissioned in a restricted counterbore?	Set the live gap, check available travel, and compare runout and dynamic response while confirming the counterbore does not distort the far-gap response.
Which order-code elements must be photographed on 330908-22-31-10-01-05?	Capture 22, 31, 10, 01 and 05 with the full base number, plus the installed orientation and companion cable identities.

Technical notes

Exact configuration	3/8-24 UNF NSv probe without armor, 2.2 in unthreaded length, 3.1 in case, 1.0 m standard lead, connector protector and multiple approvals
System boundary	Published values apply to the matched NSv probe, extension cable and Proximitor Sensor
Technical reference	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet 147385 Rev. R

Source record, related portfolio and contact

Manufacturer reference	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet 147385 Rev. R
Applicability	Facts are limited to the exact order-code selections and stated matched-system conditions.
Public page	Exact product page linked from the first-page model title
Evidence boundary	No neighboring-model option or unsupported lifecycle conclusion is assigned to this product.

Verified related product references

Recommended product	Bently Nevada 330980-70-05
Recommended product	Bently Nevada 330425-01-00
Recommended product	Bently Nevada 330500-07-00
Recommended product	Bently Nevada 330706-005-046-10-02-00
Recommended product	Bently Nevada 200355-00-00-00



Discuss the exact marking and installed relationship with Apter Power.
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Use the complete marking, installed relationship, photographs and measured baseline as the service record for 330908-22-31-10-01-05.