330908-00-20-10-02-05

3300 XL NSv Proximity Probe

Apter Power field guide covering identity capture, installed relationships, controlled replacement, commissioning and handover.

NSv mounting identity

This 330908 execution has no unthreaded reach ahead of its 3/8-24 UNF case and uses a 2.0 in overall body. The compact geometry must be matched to the installed port, locknut and target location.

Complete identity record

Probe family	3300 XL NSv
Unthreaded length	0.0 in
Overall case length	2.0 in
Total probe length	1.0 m
Connector and cable option	02 - ClickLoc, standard cable
Agency approval option	05 - Multiple approvals
Probe thread	3/8-24 UNF-2A
Probe construction	Standard mount, without armor

Installed relationship

Option 02 does not include a factory-installed connector protector

Compact threaded ports

Use the flush 3/8-24 case where the machine geometry does not require an unthreaded reach.

Small target measurements

Review the documented flat-target diameter and scale-factor effects before acceptance.

Restricted side-view locations

Use the NSv body where standard 8 mm probe clearance is insufficient.

Phase and speed reference

Confirm target feature and the receiving-channel range before using the probe for timing duty.

Evidence boundary

Exact configuration	3/8-24 UNF NSv probe without armor, 0.0 in unthreaded length, 2.0 in case, 1.0 m standard lead and multiple approvals
Connector boundary	Option 02 does not include a factory-installed connector protector
Technical reference	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet 147385 Rev. R

Small-target and clearance readiness

The 1.0 m standard triaxial lead ends in a ClickLoc connector without a factory-installed protector. Routing and environmental protection must therefore be reviewed for the actual probe-to-extension joint.

Readiness checks

Verify zero unthreaded reach

Do not substitute a visually similar long-reach 330908 execution.

Check the 2.0 in case depth

Confirm the installed thread and locknut geometry against the drawing.

Plan connector protection

Option 02 has no factory-installed protector; apply the approved environmental protection separately if required.

Respect target limitations

Small targets and tight counterbores can change scale factor at far gaps.

Limit probe cross-talk

Maintain documented tip separation or approved axial offset on small shafts.

Verify live response

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

Technical values used for fit decisions

Cable construction	75 ohm triaxial, FEP insulated
System linear range	1.5 mm (60 mils), matched NSv system
System scale factor	7.87 V/mm (200 mV/mil)
Recommended gap	1.0 mm (40 mils)
Frequency response	0 to 10 kHz, +0/-3 dB typical
Recommended flat target	13 mm diameter minimum
Minimum cable bend radius	25.4 mm

Installed signal or connection path



Readiness boundary

Application scope: Apply it where the zero-unthreaded 2.0 in body and NSv small-target performance match the approved machine drawing.

Probe replacement sequence

01 Capture	Photograph the complete marking, installed position, connections and companion hardware before disturbance.
02 Isolate	Apply the approved machine or system isolation and prove the required de-energized state.
03 Compare	Check every order-code value and mechanical interface against the offered item and approved drawing.
04 Remove	Release connectors and supports without twisting, pulling or loading the sensing face, cable or armor.
05 Install	Do not substitute a visually similar long-reach 330908 execution. Confirm the installed thread and locknut geometry against the drawing.
06 Reconnect	Option 02 has no factory-installed protector; apply the approved environmental protection separately if required. Small targets and tight counterbores can change scale factor at far gaps.
07 Energize	Use the approved staged procedure and monitor the expected static state before functional testing.
08 Prove	Set gap and compare the restored channel with its accepted baseline.

Field decisions

What does zero unthreaded length mean for 330908-00-20-10-02-05?

The 3/8-24 thread begins directly behind the sensing end, so port depth and locknut position establish the final tip location.

How should the 2.0 in case of 330908-00-20-10-02-05 be checked?

Confirm the complete threaded-port depth, engagement and target clearance rather than matching only the thread diameter.

Is a connector protector included with 330908-00-20-10-02-05?

No. Option 02 is the standard ClickLoc cable without a protector; add only the approved protection needed by the installed environment.

What small-target limit applies to 330908-00-20-10-02-05?

A 13 mm flat target is recommended; smaller targets can change scale factor and require closer application review.

Further model-specific decisions

How can cross-talk be reduced for 330908-00-20-10-02-05 on a small shaft?	Maintain the NSv tip separation guidance or use the documented axial offset arrangement while preserving required measurement travel.
Which electrical length begins with 330908-00-20-10-02-05?	The probe contributes 1.0 m; the extension cable and Proximitor Sensor must complete the intended NSv system length.
How is 330908-00-20-10-02-05 proven after installation?	Set the approved live gap, observe stable bias and compare runout, vibration, position or phase response with the prior channel record.
What approval information accompanies 330908-00-20-10-02-05?	Code 05 selects the documented multiple-approval option; use the applicable certified installation drawing for the actual circuit.

Gap, cross-talk and response proof

Identity accepted	Complete order code and supplied execution agree with the approved record.
Mechanical acceptance	Mounting, insertion, routing, support and connector condition match the documented arrangement.
Electrical acceptance	Continuity, static bias or gap and receiving-channel state are within the approved baseline.
Functional acceptance	Representative measurement or connection response agrees with the recorded machine condition.
Handover record	Retain photographs, as-left values, companion identities, deviations and responsible release.

Release record

As-found evidence	Complete marking, installed position, connection map and baseline readings retained.
As-left evidence	Installed identity, mechanical datum, static reading and functional result retained.
Approval basis	Site procedure, applicable manufacturer document and responsible release recorded.

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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