330904-00-10-05-02-05

3300 XL NSv Proximity Probe

Bently Nevada 330904-00-10-05-02-05 is a mechanically protected M8 x 1 3300 XL NSv proximity probe with 100 mm case length and 0.5 m lead.

330904-00-10-05-02-05 configuration dashboard

Installed geometry control

0 mm reach and a 100 mm body preserve the documented target position when the mounting datum is recorded.

Protected lead routing

Flexible stainless-steel armor adds mechanical protection along the probe lead while still requiring independent routing support.

Matched signal path

The calibrated probe lead remains an electrical component of the complete transducer system.

Exact order-code identity

Probe family	3300 XL NSv
Base probe number	330904
Mounting thread	M8 x 1
Lead protection	Flexible stainless-steel armor
Unthreaded length	0 mm
Overall case length	100 mm
Total probe length	0.5 m
Connector and cable option	02 - ClickLoc connector, standard cable

330904-00-10-05-02-05 decodes to M8 x 1, armored, 0 mm unthreaded reach, 100 mm case. This exact reach and case combination must be checked against the installed sleeve, thread engagement, locknut datum and target clearance before the original probe is moved.

3300 XL NSv Proximity Probe technical capability map

Agency approval option	05 - Multiple approvals
Probe case material	AISI 303 or 304 stainless steel
Matched-system linear range	1.5 mm (60 mils), matched NSv system
Recommended operating gap	1.0 mm (40 mils)
Reference target	13 mm flat target minimum; AISI 4140 reference steel
Minimum cable bend radius	25.4 mm

Probe tip material	Polyphenylene sulfide (PPS)
Cable construction	75 ohm triaxial, FEP insulated
Matched-system scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz, +0/-3 dB
Probe temperature range	-52 to +177 deg C

Installed signal or connection path



System interpretation boundary

Flexible stainless-steel armor adds mechanical protection along the probe lead while still requiring independent routing support. The standard FEP-insulated triaxial lead preserves the documented electrical relationship within the matched transducer chain. The order code does not include a factory-installed connector protector, so joint protection must follow the approved installation plan.

Published range, scale and frequency data apply to the complete matched 3300 XL NSv probe, extension cable and Proximitor Sensor under the stated target and calibration conditions. Commissioning therefore includes live gap, runout and receiving-channel response checks.

Application fit decisions for 330904-00-10-05-02-05

Radial shaft vibration

Use 330904-00-10-05-02-05 where the M8 x 1 body and 100 mm case reproduce the documented bearing-housing geometry.

Axial position measurement

Confirm target flatness, available travel and the 0 mm reach before setting the operating gap.

Mechanically exposed routing

Support the armored lead independently through exposed machine areas.

Restricted-clearance points

Apply the NSv small-target and probe-spacing guidance in counterbores and narrow views.

Engineering decision matrix

How should the 0 mm reach of 330904-00-10-05-02-05 be reproduced?	Record the installed datum and locknut position before removal, then confirm the 100 mm case places the tip at the same approved target gap.
What does the M8 x 1 execution of 330904-00-10-05-02-05 require at the machine port?	Inspect thread form, engagement, sleeve clearance and target alignment; matching nominal diameter alone is not sufficient.
How does the armored lead affect routing of 330904-00-10-05-02-05?	Support the armor independently, avoid ferrule loading and do not use the armor as a pulling member.
What connection protection is selected on 330904-00-10-05-02-05?	Option 02 does not include a factory-installed protector; use the approved site protection only where required.

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

330904-00-10-05-02-05 service controls and maintenance logic

Verify the complete order code

Photograph 330904-00-10-05-02-05 and confirm every option block before removal.

Preserve the mechanical datum

Record 0 mm reach, 100 mm case, insertion position and locknut location.

Control cable loading

Do not twist, pull or suspend the probe by its armor or ferrule.

Protect the ClickLoc joint

Keep mating faces clean and add only the approved environmental protection required by the installation.

Preserve total electrical length

Combine the 0.5 m probe lead only with the extension cable and Proximitor Sensor selected for the intended system length.

Prove the restored channel

Set live gap and compare static bias, runout and measurement response with the accepted baseline.

Additional technical questions

How is total electrical length controlled for 330904-00-10-05-02-05?	The probe contributes 0.5 m; add only the documented extension cable that matches the intended Proximitor Sensor system length.
Which target assumptions apply to 330904-00-10-05-02-05?	Published performance uses the stated AISI 4140 reference target; verify target size, material, flatness and nearby conductive geometry for the actual machine.
How should 330904-00-10-05-02-05 be checked after installation?	Set the approved live gap, confirm stable bias, then compare slow-roll runout and the intended vibration, position or phase response with the accepted record.
What does approval option 05 mean for 330904-00-10-05-02-05?	The order code selects the documented multiple-approval execution; the installed circuit must still follow the applicable certified drawing.

Technical notes

Exact configuration	M8 x 1, armored, 0 mm unthreaded reach, 100 mm case; 0.5 m lead; ClickLoc connector, standard cable; multiple approvals
System boundary	Range, scale and frequency values belong to the complete matched 3300 XL NSv transducer chain, not the probe alone
Technical reference	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet 147385 Rev. R

330904-00-10-05-02-05 source record and supported references

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.
sales13@apterpower.com | +86 18030235313

Use the complete marking, installed relationship, photographs and measured baseline as the service record for 330904-00-10-05-02-05.