Bently Nevada 109548-01 P1407030-00100

Complete product information | engineering and purchasing view

3300 XL NSv proximity probe identified by the complete label

The combined 109548-01 P1407030-00100 marking identifies a 3300 XL NSv probe. Published NSv performance values apply to a matched probe, extension cable, Proximitor Sensor and calibration target. Verify the offered unit's fitted case, lead length and approval marking before replacement.

01 | Product identity

Buyer information	Verified statement
Complete marked model	109548-01 P1407030-00100
Product name	Proximity Probe
Condition	New, original product
Associated platform	3300 XL NSv proximity measurement system

02 | System and interfaces

Element	Relevant technical information
109548-01 probe	Senses the conductive target; its label identifies the NSv family.
Matched extension cable	Completes the selected total electrical length and protects the coaxial connection.
NSv Proximitor Sensor	Conditions the probe signal; its output goes to the configured machine monitor.
System calibration target	Published accuracy assumes a Bently Nevada AISI 4140 steel target and the stated test conditions.
Nominal system scale	7.87 V/mm (200 mV/mil) applies to the complete matched NSv system, not to the probe alone.
System linear span	1.5 mm nominal, approximately 0.25 to 1.75 mm from target in the OEM test arrangement.
Initial gap reference	1.0 mm (40 mils) recommended for the documented NSv system; confirm on the actual machine.
Proximitor power	-17.5 to -26 Vdc without barriers; this is a conditioner requirement, not a power input to the probe.
Probe lead	OEM NSv family uses 75-ohm FEP-insulated coaxial cable; exact lead length of the offered 109548-01 is not established.

03 | Applications and precautions

Machine target measurement

Confirm the conductive target and probe location from the machine drawing.

Installed system comparison

Compare the offered connector and cable to the removed part before integration.

Maintenance spare control

Retain both identity tokens in the plant spare-parts record.

Channel acceptance

Set and record the gap and monitor indication after installation.

Compare both markings

Keep the two-part identity together in the replacement record.

Inspect the sensing tip

Check for impact damage and contamination.

Check connector fit

Compare the actual connector and lead to the removed unit.

Confirm machine clearance

Use the installed drawing to set reach and target spacing.

Verify channel pairing

Read the connected extension and conditioner labels before energizing.

Record acceptance

Capture the final gap and channel baseline.

04 | Technical FAQ

Engineer question	Answer
Why is 109548-01 P1407030-00100 not a complete measuring chain?	The NSv system has three components: probe, extension cable and Proximitor Sensor. The single probe has no stand-alone calibrated voltage scale.
What target affects 109548-01 P1407030-00100 calibration?	The OEM system accuracy assumes its AISI 4140 steel reference target. Other alloys or geometry require a site-specific calibration check.
What can alter readings near 109548-01 P1407030-00100?	Counterbore side metal, a small target, rear clearance and adjacent probes can change scale or introduce cross-talk.
Which electrical value belongs to the Proximitor rather than 109548-01 P1407030-00100?	The -17.5 to -26 Vdc supply is for the NSv Proximitor Sensor; it must not be described as a direct probe supply.
How should 109548-01 P1407030-00100 connectors be protected?	The OEM recommends protectors at probe-to-extension and extension-to-Proximitor ClickLoc joints to prevent liquid ingress and signal problems.
Can 109548-01 P1407030-00100 replace an older 190-series probe by itself?	No blanket part-for-part replacement follows from the system family. The OEM requires a complete NSv component change for 3000/7000 190-system upgrades.

05 | Service decision and acceptance

Stage	Field verification
01 | Record	Capture the full 109548-01 P1407030-00100 label, current gap, target material and installed monitor baseline.
02 | Isolate	Put the monitoring channel in its approved maintenance state before disturbing the probe.
03 | Inspect	Check tip, case, lead and ClickLoc connector for damage or contamination.
04 | Pair	Confirm matching NSv extension cable, total system length and Proximitor identity.
05 | Install	Verify case thread and engagement against the machine drawing; avoid binding or damaged lead routing.
06 | Gap	Use the OEM 1.0 mm reference only as a starting system check; set final gap from the approved machine procedure.
07 | Prove	Check output against the recorded baseline and approved target calibration, including adjacent-probe effects.
08 | Handover	Retain the final label photo, component list, gap and channel readings for future comparison.

Lifecycle and available-unit controls

A current manufacturer lifecycle phase for this complete identity is not established. Verify the actual offered marking, condition and included items against the quotation; preserve the installed configuration before replacement.

Technical basis

Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R

Other Bently Nevada references

These listings help locate other Bently Nevada parts. Confirm each complete model for its own installation.

Bently Nevada 330103-01-04-10-02-05	3300 XL 8 mm Proximity Probe
Bently Nevada 330101-36-80-10-02-00	3300 XL 8 mm Proximity Probe
Bently Nevada 330101-29-52-10-02-00	3300 XL 8 mm Proximity Probe
Bently Nevada 330101-33-60-10-02-00	3300 XL 8 mm Proximity Probe
Bently Nevada 330709-000-090-10-02-00	3300 XL 11 mm Proximity Probe

Discuss the complete fitted marking with Apter Power.
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