Bently Nevada 109548-01 P1407030-00100

Engineering field guide | fit, connect and prove

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.

Before opening the channel

Use the installed machine drawing and control procedure. Record as-found signal, complete marking and all connected components before isolation.

Field work sequence

Step	Action and acceptance evidence
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.

Fault isolation and stop conditions

Finding	Check or stop point
Restricted target	Check counterbore, side-view and rear-view clearance; nearby metal can change sensitivity.
Small shaft or flat target	The NSv family is designed for constrained targets, but actual shaft or target geometry still affects scale.
Paired probes	Check probe-tip separation and cross-talk for close axial or X-Y mounts.
Different target alloy	Do not transfer AISI 4140 calibration accuracy without target-specific verification.
Moist connector	Protect the probe-to-extension and extension-to-Proximitor ClickLoc junctions against liquid ingress.

Finding	Check or stop point
Unclear part equivalence	Use the full 109548-01 P1407030-00100 marking plus case, lead, connector and complete chain; family membership alone is not interchangeability.

Handover review

Review question	Engineering 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.

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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