Bently Nevada 330901-04-24-10-02-05

Apter Power installation and commissioning guide

Bently Nevada 330901-04-24-10-02-05 is a 3300 XL NSv proximity probe with a 1/4-28 UNF case thread, 1.0 m integral lead and clickloc connector.

01 / Work scope

This 3300 XL NSv probe senses the gap to a conductive target as one part of the complete proximity transducer chain.

Selected assembly

Parameter	Selected configuration
Probe family	3300 XL NSv
Case thread	1/4-28 UNF
Lead armor	without armor
Unthreaded length	0.4 in
Overall case length	2.4 in
Probe lead length	1.0 m

System position

Boundary	Installed-system relationship
Sensing-chain context	330901-04-24-10-02-05 is the probe at the machine target within a 3300 XL NSv probe, cable and Proximitor arrangement.
Application scope	Use the installed system calibration and target geometry to select a supported vibration, position or phase-reference location.

02 / Before installation

Part prefix 330901 selects a 1/4-28 UNF case without lead armor. The selected unthreaded section is 0.4 in, within an overall 2.4 in case.

Parameter	Selected configuration
Unthreaded length	0.4 in
Overall case length	2.4 in
Probe lead length	1.0 m
Connector	ClickLoc connector
Approval selection	multiple approvals selected

Readiness checks

Check	Reason or action
Isolation	Make the measurement channel and machine safe before changing the probe.
Thread fit	Confirm the 1/4-28 UNF mount without forcing a different case thread.
Target clearance	Inspect the available target area and side-view clearance before setting the probe gap.
Cable routing	Keep the lead clear of sharp edges and protect the coaxial connector from contamination.

Record the complete product marking and the installed machine drawing before removing an existing item.

03 / Mechanical and electrical fitting

Option 10 provides a 1.0 m lead. Code 02 supplies a clickloc connector; keep this connection clean and match it to the extension cable.

Sequence	Installation action
1. Isolation	Make the measurement channel and machine safe before changing the probe.
2. Thread fit	Confirm the 1/4-28 UNF mount without forcing a different case thread.
3. Target clearance	Inspect the available target area and side-view clearance before setting the probe gap.
4. Cable routing	Keep the lead clear of sharp edges and protect the coaxial connector from contamination.
5. System length	Count the 1.0 m probe lead in the total length of the matched transducer chain.
6. Gap acceptance	Check the final DC gap voltage and dynamic signal under the approved site procedure.

Configuration-specific notes

Topic	Technical limit
Probe configuration	330901 selects a 1/4-28 UNF unarmored case with 2.4 in overall length and 1.0 m lead.
System boundary	Measurement performance depends on the matched probe, extension cable, Proximitor sensor and target material.

04 / Commissioning acceptance

The final code 05 denotes multiple approvals selected. Gap, scale factor and linear range describe the matched 3300 XL NSv system, rather than this probe alone.

Question	Engineering answer
What sensing family does 330901-04-24-10-02-05 belong to?	It is a 3300 XL NSv probe. It works with a matched extension cable and Proximitor sensor.
Which case thread is selected for 330901-04-24-10-02-05?	The 330901 part prefix selects a 1/4-28 UNF case thread.
Is the lead of 330901-04-24-10-02-05 armored?	No. The 330901 probe prefix denotes a version without lead armor.
How long is the unthreaded portion of 330901-04-24-10-02-05?	Option 04 selects 0.4 in unthreaded length.
What is the overall probe case length of 330901-04-24-10-02-05?	Option 24 selects 2.4 in overall case length.

Acceptance record

Measurement use	Supported context
Machine vibration	Observe a suitable shaft target for relative vibration in a documented transducer installation.
Axial position	Use an approved axial position arrangement with the correct target and probe gap.

Accept the installation only after the installed system and target configuration have been checked against the machine procedure.

05 / Service handover

Question	Engineering answer
How long is the integral lead on 330901-04-24-10-02-05?	Option 10 selects a 1.0 m probe lead.
What connection is supplied with 330901-04-24-10-02-05?	Option 02 specifies a clickloc connector; protect the connection during routing and installation.
Does 330901-04-24-10-02-05 alone establish the system measurement range?	No. The matched 3300 XL NSv probe, extension cable, Proximitor sensor and target calibration establish system performance.

Service reference

Confirm the installed system length, case thread and connector before selecting a replacement probe.

Related product references

Related product	Selection note
Bently Nevada 330101-00-20-10-02-00	Separate catalogue reference
Bently Nevada 330101-00-08-05-02-00	Separate catalogue reference
Bently Nevada 330801-28-20-050-03-02	Separate catalogue reference
Bently Nevada 330880-01-20-058-03-02	Separate catalogue reference
Bently Nevada 330880-00-00-000-03-02	Separate catalogue reference
Bently Nevada 21504-000-040-10-02	Separate catalogue reference
Bently Nevada 330851-02-000-060-10-00-00	Separate catalogue reference

Technical reference: Bently Nevada 3300 XL NSv Proximity Transducer System, 147385 Rev. R.