Bently Nevada 31000-27-05-00-035-03-02

Installation & Commissioning Guide

Bently Nevada 31000-27-05-00-035-03-02 is a 31000 proximity-probe housing assembly configured with a 3300 XL NSv probe and a 3.5-inch penetration selection.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Provides a protected external mount for an NSv proximity probe.

Feature 2

Allows probe-gap adjustment or replacement without machine disassembly.

Feature 3

Uses corrosion-resistant housing and mounting components.

Feature 4

Supports radial vibration or Keyphasor measurements through the machine case.

TECHNICAL DATA SNAPSHOT

Housing family	31000 proximity probe housing
Installed probe	3300 XL NSv proximity probe
Probe cable length	0.5 m
Standoff adapter	Not included

SYSTEM RELATIONSHIP

Machine target → **Sensing tip** → **Coaxial signal path** → **Receiving electronics**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Housing family 31000 proximity probe housing	**Installed probe** 3300 XL NSv proximity probe
Probe cable length 0.5 m	**Standoff adapter** Not included
Probe penetration 3.5 in	**Fitting package** Two plugs, 3/4-14 NPT fitting, reducer and cable seal grip
Machine mounting thread 3/4-14 NPT	**Environmental rating** Type 4X and IP66 mechanical protection

IMPORTANT NOTICE Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

DOCUMENT AND WORK CONTROLS

Manufacturer document	Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet 141610
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

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Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 31000-27-05-00-035-03-02 marking and the documented 31000 proximity probe housing assembly position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed housing family, installed probe and probe cable length before removal.
04	De-energize the associated monitor, sensor supply or field circuit as the procedure requires.
05	Label every connector, conductor and shield before separation.
06	Inspect mating contacts, mounting hardware and cable condition before installation.
07	Restore the retained configuration and verify signal polarity and proportional response.
08	Function-test the complete alarm, indication and shutdown path before returning the machine to service.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Machine target → **Sensing tip** → **Coaxial signal path** → **Receiving electronics**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC CHECKS

Radial shaft vibration

Mounts a probe through the machine case.

Keyphasor measurement

Provides accessible phase-reference probe mounting.

External adjustment

Allows controlled probe-gap setting outside the casing.

Environmental protection

Shields the probe connection from wet or dusty conditions.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

What controls housing family on Bently Nevada 31000-27-05-00-035-03-02?	The documented housing family is 31000 proximity probe housing; confirm it against the installed record.
How is installed probe tested on Bently Nevada 31000-27-05-00-035-03-02?	The documented installed probe is 3300 XL NSv proximity probe; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

Which record preserves probe cable length for Bently Nevada 31000-27-05-00-035-03-02?	The documented probe cable length is 0.5 m; confirm it against the installed record.
Which standoff adapter applies to Bently Nevada 31000-27-05-00-035-03-02?	The documented standoff adapter is Not included; confirm it against the installed record.
How is probe penetration set on Bently Nevada 31000-27-05-00-035-03-02?	The documented probe penetration is 3.5 in; confirm it against the installed record.
What fitting package belongs to Bently Nevada 31000-27-05-00-035-03-02?	The documented fitting package is Two plugs, 3/4-14 NPT fitting, reducer and cable seal grip; confirm it against the installed record.
Why verify machine mounting thread for Bently Nevada 31000-27-05-00-035-03-02?	The documented machine mounting thread is 3/4-14 NPT; confirm it against the installed record.
Where is environmental rating used by Bently Nevada 31000-27-05-00-035-03-02?	The documented environmental rating is Type 4X and IP66 mechanical protection; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 3300/03	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 3500/94M 184826-01	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 140482-01	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER DOCUMENT AND FINAL CONTROL

Manufacturer document	Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet 141610
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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