

Bently Nevada 330851-02-000-080-90-01-05

Installation & Commissioning Guide

Bently Nevada 330851-02-000-080-90-01-05 is an M30 x 2 threaded 3300 XL 25 mm probe with a 80 mm case, a 9.0 m total length and sst armor.

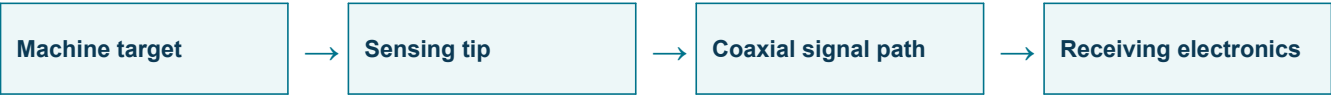
PRODUCT ROLE AND VERIFIED FEATURES

Feature 1 Uses the M30 x 2 metric case type defined for the 25 mm probe family.	Feature 2 Provides a 80 mm case with no unthreaded section.
Feature 3 Carries a 9.0 m lead for the selected 25 mm system length.	Feature 4 Uses sst armor and the multiple-approval execution.

VERIFIED DATA SNAPSHOT

Probe family	3300 XL 25 mm
Case type	M30 x 2 threaded
Unthreaded length	0 mm
Case length	80 mm

SYSTEM RELATIONSHIP



APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.



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

Probe family 3300 XL 25 mm	Case type M30 x 2 threaded
Unthreaded length 0 mm	Case length 80 mm
Total length 9.0 m	Armor SST armor
Approval option Multiple approvals	System linear range 12.7 mm / 500 mil, complete matched system

IMPORTANT NOTICE

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

SOURCE AND WORK CONTROLS

Manufacturer source	Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet 163236 Rev. M.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.



Installation sequence

CONTROLLED WORK STEPS

- 01 Match the entire 330851-02-000-080-90-01-05 ordering string before installation.
- 02 Use only a matched 3300 XL 25 mm probe, extension cable and Proximito sensor.
- 03 Verify the M30 x 2 mounting thread and the selected case reach.
- 04 Protect the large sensing face from impact and keep the target path clear through the full movement range.
- 05 Maintain the documented total electrical length; do not shorten or splice the probe lead.
- 06 Route and support the cable so it cannot pull the probe out of alignment.
- 07 Set the initial gap for the approved differential-expansion geometry.
- 08 Perform a controlled movement check and record scale, direction, gap voltage and diagnostics.

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.



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 EVIDENCE

Steam-turbine differential expansion Measures rotor-to-casing growth on medium and large turbine generators.	Turbine supervisory instrumentation Feeds a long-range displacement signal into the TSI monitoring channel.
Large-motion position sensing Uses the 25 mm system range where shorter-range probes are insufficient.	Commissioning movement check Supports controlled target or probe movement to prove scale, direction and channel response.

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

Which case thread is used by 330851-02-000-080-90-01-05?	Case option 02 is M30 x 2.
What case length is specified in 330851-02-000-080-90-01-05?	The 080 option specifies 80 mm.

Release record and technical references

CLOSEOUT QUESTIONS

What system-length contribution is selected by segment 90 in 330851-02-000-080-90-01-05?	The 90 option specifies a 9.0 m total length.
Is 330851-02-000-080-90-01-05 armored?	Yes. Option 01 selects stainless-steel armor.
Why is the 000 field zero on the threaded 330851-02-000-080-90-01-05 case?	It specifies 0 mm unthreaded length for the threaded metric case.
Which approval option is built into 330851-02-000-080-90-01-05?	The terminal 05 selects multiple approvals.
What receiving system is required for 330851-02-000-080-90-01-05?	Use the matched 9 m 3300 XL 25 mm Proximity system and compatible extension arrangement.
How should the nine-metre 25 mm channel be proved after fitting 330851-02-000-080-90-01-05?	Move the target or probe through a controlled interval and confirm the expected differential-expansion scale and direction.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 330190-045-01-05	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 330102-00-12-10-01-05	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 330851-02-000-040-10-00-05	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet 163236 Rev. M.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE

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

APTERPOWER SALES TEAM
 WhatsApp / Phone: +86 180 3023 5313
 Email: sales13@apterpower.com
 Scan the approved WhatsApp code for model-specific support.

