Bently Nevada 330780-X1-CN

Installation & Commissioning Guide

Bently Nevada 330780-X1-CN is a 3300 XL 11 mm Proximitor sensor for a matched probe and extension-cable system with country-specific approval selection.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Conditions the matched 11 mm probe and extension-cable signal.

Feature 2

Provides a 100 mV/mil scale factor.

Feature 3

Extends linear displacement measurement to 160 mil.

Feature 4

Supports vibration and static position measurements on rotating machinery.

TECHNICAL DATA SNAPSHOT

Transducer family	3300 XL 11 mm
Component role	Proximitor sensor
Scale factor	3.94 V/mm (100 mV/mil)
Linear range	4.0 mm (160 mil)

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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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

Transducer family 3300 XL 11 mm	**Component role** Proximitor sensor
Scale factor 3.94 V/mm (100 mV/mil)	**Linear range** 4.0 mm (160 mil)
Frequency response 0 to 8 kHz within the documented response band	**Power requirement** -17.5 to -26 VDC
Measurement output Voltage proportional to probe-to-target gap	**Approval selection** Country-specific CN execution

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

DOCUMENT AND WORK CONTROLS

Manufacturer document	Bently Nevada 3300 XL 11 mm Proximity Transducer System Datasheet 146256
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 330780-X1-CN marking and the documented 3300 xl 11 mm proximitor sensor position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed transducer family, component role and scale factor 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.



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

Differential expansion

Measures larger rotor-to-casing movement.

Axial position

Tracks shaft position with extended range.

Radial vibration

Measures non-contact shaft motion.

Machine protection

Feeds proportional signals to compatible monitor channels.

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

Why verify transducer family for Bently Nevada 330780-X1-CN?	The documented transducer family is 3300 XL 11 mm; confirm it against the installed record.
Where is component role used by Bently Nevada 330780-X1-CN?	The documented component role is Proximitor sensor; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

What controls scale factor on Bently Nevada 330780-X1-CN?	The documented scale factor is 3.94 V/mm (100 mV/mil); confirm it against the installed record.
How is linear range tested on Bently Nevada 330780-X1-CN?	The documented linear range is 4.0 mm (160 mil); confirm it against the installed record.
Which record preserves frequency response for Bently Nevada 330780-X1-CN?	The documented frequency response is 0 to 8 kHz within the documented response band; confirm it against the installed record.
Which power requirement applies to Bently Nevada 330780-X1-CN?	The documented power requirement is -17.5 to -26 VDC; confirm it against the installed record.
How is measurement output set on Bently Nevada 330780-X1-CN?	The documented measurement output is Voltage proportional to probe-to-target gap; confirm it against the installed record.
What approval selection belongs to Bently Nevada 330780-X1-CN?	The documented approval selection is Country-specific CN execution; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 3300/47	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 3500/50E	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 3500/23E	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER DOCUMENT AND FINAL CONTROL

Manufacturer document	Bently Nevada 3300 XL 11 mm Proximity Transducer System Datasheet 146256
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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