Bently Nevada 330780-X1-CN

Complete Product Information

The 11 mm sensor provides the wider linear range used where a standard 8 mm proximity system does not provide enough displacement reach.

WHAT THIS PRODUCT DOES

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 characteristic 1

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

Product characteristic 2

Provides a 100 mV/mil scale factor.

Product characteristic 3

Extends linear displacement measurement to 160 mil.

Product characteristic 4

Supports vibration and static position measurements on rotating machinery.

PRODUCT-PAGE TECHNICAL 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)

IMPORTANT NOTICE Record the installed 330780-X1-CN interfaces and configuration before removal, then prove the monitored value, status and alarm path after installation.

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Scan the approved WhatsApp code for model-specific support.

Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

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

FEATURE INTERPRETATION

Product identity

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

System role

Provides a 100 mV/mil scale factor.

Service context

Extends linear displacement measurement to 160 mil.

Return-to-service focus

Supports vibration and static position measurements on rotating machinery.

SIGNAL OR CONTROL PATH

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

Use 330780-X1-CN only in the documented monitoring chain and verify the complete signal path after controlled replacement.

PRODUCT-PAGE TECHNICAL 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.
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.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

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.

APPLICATION VERIFICATION MAP

Differential expansion	Confirm the documented system position and the required operating function.
Axial position	Compare the restored connection or control path with the approved record.
Radial vibration	Check the physical interface and the retained configuration before startup.
Machine protection	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record Complete marking and assigned system position.	**Connection record** Connector, conductor and interface arrangement as found.
Configuration record Controlled settings, application data and option state.	**Acceptance record** Observed status, response and release decision.

IMPORTANT NOTICE	Use the complete product identifier for every application review; a related product link does not establish interchangeability.

APPLICATION 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.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

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.

FREQUENTLY ASKED TECHNICAL 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.
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.

IMPORTANT NOTICE	Confirm the complete 330780-X1-CN identity and every mating interface before installation.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, document reference and related models

ADDITIONAL TECHNICAL QUESTIONS

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.

MANUFACTURER DOCUMENT REFERENCE

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.

RELATED MODELS ON APTERPOWER

Bently Nevada TACH100-01 174652-01	Related product reference. Review the complete ordering string before selection.
Bently Nevada 330400-01-05	Related product reference. Compare the required interface and system position.
Bently Nevada 330505-02-02-02	Related product reference. Confirm the execution independently for the intended task.

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