

330780-51-CN

3300 XL 11 mm Proximitior Sensor

Bently Nevada 330780-51-CN is the documented 3300 XL 11 mm Proximitior Sensor for the matched Bently Nevada 3300 XL 11 mm Proximity Transducer System.

BRAND	Bently Nevada	FAMILY	Bently Nevada 3300 XL 11 mm Proximity Transducer System
PART	330780-51-CN	SYSTEM ROLE	Exact article identity: Bently Nevada 330780-51-CN

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330780-51-CN

MANUFACTURER SOURCE RECORD

3300 XL 11 mm Proximity Transducer System Datasheet
146256 Rev. T

Product Overview

SYSTEM FUNCTION

Bently Nevada 330780-51-CN is the documented 3300 XL 11 mm Proximitor Sensor for the matched Bently Nevada 3300 XL 11 mm Proximity Transducer System.

FUNCTION 1

Exact article identity: Bently Nevada 330780-51-CN

FUNCTION 2

Documented component: 3300 XL 11 mm Proximitor Sensor

FUNCTION 3

Installed family: Bently Nevada 3300 XL 11 mm Proximity Transducer System

FUNCTION 4

Controlled replacement and verification workflow

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 3300 XL 11 mm Proximity Transducer System
Primary interface	Exact article identity: Bently Nevada 330780-51-CN
Engineering context	Use 330780-51-CN only with the documented Bently Nevada host system and matched interfaces. Preserve the as-found configuration during replacement and commissioning.
Commissioning duty	Complete a controlled response and alarm test before service release.

TECHNICAL NOTE

Match 330780-51-CN to the documented host, physical interface and connection arrangement. Restore the recorded configuration and verify diagnostics and controlled channel response before release.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Complete order number	330780-51-CN	Recommended gap	2.5 mm (100 mils)
Component	3300 XL 11 mm Proximitior Sensor	Incremental scale factor	3.94 V/mm (100 mV/mil)
System length	5.0 m	Frequency response	0 to 8 kHz, +0/-3 dB typical
Mounting	DIN mount	Supply	-17.5 to -26 V DC without barriers
Approval option	China country-specific approval	Current consumption	12 mA maximum
System linear range	4.0 mm (160 mils)	Output resistance	50 ohm

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330902-00-95-05-02-05	Bently Nevada product	View Bently Nevada 330902-00-95-05-02-05 page
Bently Nevada 330930-040-03-05	Bently Nevada product	View Bently Nevada 330930-040-03-05 page
Bently Nevada 330130-045-02-CN	Bently Nevada product	View Bently Nevada 330130-045-02-CN page
Bently Nevada 330103-00-03-10-01-CN	Bently Nevada product	View Bently Nevada 330103-00-03-10-01-CN page
Bently Nevada 330130-045-13-05	Bently Nevada product	View Bently Nevada 330130-045-13-05 page
Bently Nevada 330930-065-02-05	Bently Nevada product	View Bently Nevada 330930-065-02-05 page
Bently Nevada 330881-28-04-105-00-02	Bently Nevada product	View Bently Nevada 330881-28-04-105-00-02 page
Bently Nevada 330881-28-00-214-00-02	Bently Nevada product	View Bently Nevada 330881-28-00-214-00-02 page

ENGINEERING BOUNDARY

Confirm 330780-51-CN, host identity, hardware execution, interfaces, wiring, shielding, grounding, configuration, accessories and controlled functional-test results before commissioning.

Applications and Precautions

Common Applications

Axial thrust-position monitoring

Uses the extended linear range for a documented thrust channel.

Steam-turbine differential expansion

Conditions the long-range proximity signal in a matched 11 mm system.

Reciprocating-compressor rod position

Supports configured rod-position or rod-drop measurements.

Keyphasor and zero-speed measurement

Provides the conditioned phase-reference or speed signal to the monitor.

Product Precautions

- 1

Confirm the complete Bently Nevada 330780-51-CN marking and installed position.
- 2

Place the machine and protection channel in the approved maintenance state.
- 3

Isolate the circuit and apply ESD-safe handling controls.
- 4

Record connectors, terminals, cable route, shielding and grounding.
- 5

Verify the documented host, hardware execution and technical values.
- 6

Restore the approved interfaces and channel configuration.
- 7

Review bias, channel and monitor diagnostics after energization.
- 8

Complete a controlled response and alarm test before service release.

IMPORTANT NOTICE

Confirm 330780-51-CN, host identity, hardware execution, interfaces, wiring, shielding, grounding, configuration, accessories and controlled functional-test results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	330780-51-CN
Configuration	Review bias, channel and monitor diagnostics after energization.
Functional release	Complete a controlled response and alarm test before service release.

Engineer FAQ

Q1 How is Bently Nevada 330780-51-CN identified?

Match the complete order number 330780-51-CN and documented product designation.

Q3 What records precede removal of Bently Nevada 330780-51-CN?

Record position, connections, cable route, configuration and diagnostics.

Q5 Which values govern Bently Nevada 330780-51-CN?

Complete order number: 330780-51-CN; Component: 3300 XL 11 mm Proximity Sensor; System length: 5.0 m.

Q7 Which diagnostics follow fitting Bently Nevada 330780-51-CN?

Review channel, bias and monitor diagnostics after controlled energization.

Q2 Which host accepts Bently Nevada 330780-51-CN?

Use only the documented Bently Nevada 3300 XL 11 mm Proximity Transducer System execution.

Q4 How is Bently Nevada 330780-51-CN isolated?

Secure the machine, isolate the loop and apply ESD controls.

Q6 How is Bently Nevada 330780-51-CN compatibility checked?

Match the host, physical interface, cable or terminal execution and system configuration.

Q8 What releases Bently Nevada 330780-51-CN to service?

A documented controlled response and alarm test with no active fault.

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