Bently Nevada 330980-50-00 is a panel-mounted 3300 XL NSv Proximitor Sensor calibrated for a 5 m transducer system. It conditions the matched probe signal for small-target shaft vibration and position measurements.

Exact identity

330980	3300 XL NSv Proximitor Sensor
50	5.0 m system length; panel mount
00	Agency approval not required

Installed context

Exact item	Installed context	Acceptance
330980-50-00	Mating component or rack position	Machine-specific functional check

Small-shaft vibration

Condition a matched NSv probe signal on compressors, pumps and auxiliary machines with tight clearances.

Static shaft position

Provide a voltage proportional to target distance across the rated NSv linear range.

Panel-mounted sensor banks

Install the compact conditioner on its isolation pad in a traditional panel layout.

Rotational reference channels

Support suitable speed or phase-reference measurements when the target arrangement is configured for that use.

Related Bently Nevada models

Bently Nevada 330103-00-03-10-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330103-00-20-10-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330104-00-03-05-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330104-02-10-10-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330905-00-03-10-02-00	Related portfolio reference; verify the complete execution.
Bently Nevada 330980-51-CN	Related portfolio reference; verify the complete execution.

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Manufacturer-supported characteristics

Product Family	3300 XL NSv Proximitor Sensor
Electrical System Length	50 = 5.0 m system
Mounting Selection	50 = panel mount
Approval Option	00 = agency approval not required
Sensor Input	One 3300 RAM or NSv probe and extension cable
Terminal Strip	SpringLoc

Additional data

Factory Calibration Target	AISI 4140 steel
Supply without Barriers	-17.5 to -26 VDC
Supply with Barriers	-23 to -26 VDC
Maximum Current Consumption	12 mA
Supply Sensitivity	Less than 2 mV output change per volt of supply change
Output Resistance	50 ohm

Interpretation boundary

Panel mounting and five-metre calibration are part of the 50 selection. Use the matched NSv components and do not transfer the larger XL 8 mm system range to this channel.

Evidence discipline

Unverified weight, dimensions and suffix meanings are intentionally omitted. Confirm them only from the exact manufacturer record or nameplate.

Related Bently Nevada models

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01 / Field precaution

Match the probe and extension cable to the five-metre 330980-50-00 calibration.

02 / Field precaution

Retain the panel-mount isolation pad; grounding the housing can change the intended installation.

03 / Field precaution

Apply the specified negative DC supply and verify voltage at the sensor under load.

04 / Field precaution

Keep IN, OUT and COM conductors identified at the SpringLoc terminals.

05 / Field precaution

Confirm the target and static gap against NSv calibration rather than XL 8 mm values.

06 / Field precaution

Protect probe and extension connectors from contamination and accidental grounding.

07 / Field precaution

Review barrier requirements separately if the installed circuit uses intrinsic-safety interfaces.

08 / Field precaution

Record the static output and machine response before returning the channel to service.

Acceptance checkpoints

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed
Acceptance	Machine-specific functional result recorded

Related Bently Nevada models

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What does 50 select on 330980-50-00?

It selects a 5.0 m electrical system and panel mounting.

Does 330980-50-00 mount on a 35 mm DIN rail?

No. Code 50 is the panel-mount execution; code 51 is the five-metre DIN version.

Which probe family is paired with 330980-50-00?

Use a matched 3300 XL NSv probe and extension cable.

What linear range should be used for 330980-50-00?

Use the NSv system's 1.5 mm range, approximately 0.25 to 1.75 mm from the target, under the stated operating conditions.

Why is the mounting pad important for 330980-50-00?

The panel-mount isolation pad preserves the intended electrical isolation and mechanical installation.

How should supply voltage be checked at 330980-50-00?

Measure the negative DC supply at the sensor under load and apply the barrier-specific limit if barriers are installed.

Does 330980-50-00 include an agency approval?

No. The final 00 means agency approval is not required in the ordering code.

What should be tested after replacing 330980-50-00?

Verify the complete five-metre chain, supply, static gap voltage, monitor scaling and dynamic machine response.

Related Bently Nevada models

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330980-50-00

Evidence record

Manufacturer	Bently Nevada, a Baker Hughes company
Reference	3300 XL NSv Proximity Transducer System Datasheet 147385 Rev. R
Exact identifier	330980-50-00
Evidence boundary	Only directly supported family and ordering statements are used

Related Bently Nevada models

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Recommendation rule

Brand + model links identify related Bently Nevada pages. They do not claim compatibility or substitution.

Service record

Retain exact identity, installed point, companion components, as-found condition, inspection evidence and machine-specific acceptance result.

Manufacturer evidence

147385 Rev. R: NSv system role pp. 1-2; electrical and range data pp. 3-4; environmental and mechanical limits pp. 5-6; exact 50/00 ordering selection p. 13; mounting isolation p. 15.

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