Bently Nevada 330980-50-CN

COMPLETE PRODUCT-PAGE INFORMATION

Bently Nevada 330980-50-CN is a panel-mount Proximitor Sensor for a 5.0 m matched 3300 XL NSv transducer chain.

01 Product position

Complete identity	330980-50-CN
Product type	3300 XL NSv Proximitor Sensor
System family	Bently Nevada 3300 XL NSv Proximity Transducer System
Supply boundary	The offered item is the Proximitor Sensor. Probe, extension cable, field wiring and mounting accessories are separate unless identified in the quotation.

Decision snapshot

Marking	Keep the complete model and every suffix group in the comparison.
Installed chain	Use a 5.0 m matched probe-and-cable electrical length.
Acceptance	Use measured gap or channel response and retain the as-left record.

Overview

The sensor conditions the signal from a matched 3300 NSv probe and extension cable for the monitor input.

The 50 option selects a 5.0 m total probe-and-extension electrical length and panel mounting. Compare the sensor label, mounting pad, terminal layout and installed chain before replacement.

NSv system performance is specified for a matched probe, extension cable and sensor. The probe lead plus extension cable must total 5.0 m; an incorrect combination can shift scale and gap indication even when the connectors mate.

The CN suffix is a country-specific option whose exact approval scope must be verified on the offered nameplate. Record supply, target material, static gap and controlled channel response before final acceptance.

Related Bently Nevada references

Bently Nevada 330101-04-36-05-02-05	Catalogue reference; verify the complete installed chain.
Bently Nevada 330102-00-32-10-02-00	Catalogue reference; verify the complete installed chain.
Bently Nevada 330909-00-30-10-02-00	Catalogue reference; verify the complete installed chain.
Bently Nevada 330180-50-CN	Catalogue reference; verify the complete installed chain.

02 Exact configuration and technical data

Order-code values identify this complete reference. Rows labelled matched-system describe the correctly assembled transducer chain, not a loose component.

Sensor family	330980 3300 XL NSv Proximitor Sensor
System length	50: 5.0 m (16.4 ft)
Mounting	50: panel mount
Agency option	CN country-specific suffix; verify offered label
System input	One 3300 RAM or 3300 NSv probe and extension cable
Matched-system scale factor	7.87 V/mm (200 mV/mil)
Matched-system linear range	1.5 mm (60 mil); approximately 0.25 to 1.75 mm gap
Recommended gap setting	1.0 mm (40 mil)
Matched-system frequency response	0 to 10 kHz, +0/-3 dB typical; up to 305 m field wiring
Minimum flat target	8.9 mm (0.35 in); 13 mm (0.5 in) recommended
Minimum radial shaft diameter	20 mm (0.8 in); 30 mm (1.2 in) recommended
System supply	-17.5 to -26 Vdc without barriers; 12 mA maximum
Sensor output resistance	50 ohm

Configuration interpretation

Identity logic	The 50 option in 330980-50-CN selects a 5.0 m system length and panel mounting; verify the CN country-specific marking on the offered label.
Source boundary	Exact order groups follow the manufacturer ordering table. Values labeled matched-system apply only to a complete, correctly matched probe, extension cable and Proximitor Sensor chain.
Condition	New, original product
Shipping	Swift global dispatch

Source applicability

Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R. Exact order groups follow the manufacturer ordering table. Values labeled matched-system apply only to a complete, correctly matched probe, extension cable and Proximitor Sensor chain.

Engineering questions

How is the 5.0 m chain for 330980-50-CN assembled?	The integral probe lead plus the extension cable must equal the sensor 5.0 m system length.
Why can 330980-50-CN show a shifted gap after replacement?	An unmatched electrical length, target material, wiring or channel setting can change the indication.

03 Remaining data and installed-system fit

Probe cable impedance	75 ohm coaxial
Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 304 stainless steel
Field wiring	0.2 to 1.5 mm2 (16 to 24 AWG)
Maximum field wiring	305 m (1,000 ft)
Sensor material	A380 aluminum
Matched-system scale factor	7.87 V/mm (200 mV/mil)
Matched-system linear range	1.5 mm (60 mil); approximately 0.25 to 1.75 mm gap
Recommended gap setting	1.0 mm (40 mil)
Matched-system frequency response	0 to 10 kHz, +0/-3 dB typical; up to 305 m field wiring
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Probe cable impedance	75 ohm coaxial
Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 304 stainless steel

Applications / Compatibility

System position: The sensor is the electronic endpoint of a 5.0 m matched NSv probe-and-cable chain. Compatibility boundary: Match system length, panel mount, target calibration, wiring and approval marking.

Panel-mounted sensor replacement	Match the pad, terminals, enclosure clearance and cable route.
Five-metre NSv chain	Confirm probe plus extension cable equals 5.0 m.
Monitor-channel interface	Verify supply, output wiring and channel configuration from the installed drawing.
Controlled return to service	Record static gap and dynamic response against the approved baseline.

Compatibility boundary

Mechanical fit	Confirm thread, case, connector, mounting and routing.
Electrical match	Use a 5.0 m matched probe-and-cable electrical length.
Approval evidence	Use the offered nameplate and site record; a suffix alone is not approval evidence.
Included scope	The offered item is the Proximitor Sensor. Probe, extension cable, field wiring and mounting accessories are separate unless identified in the quotation.

04 Product precautions and commissioning

Read the full sensor code	Match 330980-50-CN, system length and approval marking.
Check the complete chain	Confirm the probe and extension cable total 5.0 m.
Verify panel mounting	Compare pad, fixing, terminal clearance and enclosure grounding.
Protect terminals	Restore wiring and shield ownership from the as-found record.
Confirm target calibration	Check actual target material and installed gap procedure.
Prove the channel	Record supply, static output and controlled monitored response.

Replacement sequence

01 Record baseline	Photograph complete labels, position, connectors, routing and current indication.
02 Isolate	Apply the approved site isolation and machinery-protection procedure.
03 Compare	Check offered identity, geometry, cable construction and included items.
04 Install	Restore routing and interfaces from the as-found record; do not force connectors.
05 Configure	Preserve the approved monitor channel, target and system-length settings.
06 Prove	Record static indication and a controlled response in an approved machine state.
07 Handover	Archive final identity, measurements and unresolved exceptions.

Fault-isolation starting points

Unexpected gap	Recheck target material, electrical length, connector engagement and channel configuration.
No channel response	Verify supply, terminal ownership and continuity before substituting another component.
Intermittent signal	Inspect connector protection, cable routing, armor transitions and vibration at the mounting point.
Scale differs	Confirm the complete matched family and sensor system length; physical fit is not calibration evidence.
Result accepted	Retain the exact model, measured baseline, test condition and as-left response.

05 Lifecycle, FAQ and enquiry

330980-50-CN status	A current lifecycle phase for this exact complete configuration has not been confirmed.
Support and replacement	Compare the complete marking and documented measurement-chain or installation interfaces before selecting a replacement.
Apter Power availability	The offered quantity and dispatch date are confirmed separately in the quotation.

Additional technical FAQ

How should the static gap for 330980-50-CN be accepted?	Use the approved target position and verify the 1.0 mm recommended-gap reference together with the monitor record.
Can 330980-50-CN be mixed with an 8 mm XL probe family?	Do not assume cross-family compatibility; verify that every component is identified for the NSv system.

Available Unit Details

Offered reference	Bently Nevada 330980-50-CN. Condition: New, original product.
Identity check	Match the complete order code, visible revision and installed chain before acceptance.
Included items	Confirm the probe, cable, sensor and mounting scope in the quotation.

Related Bently Nevada references

Bently Nevada 330101-04-36-05-02-05	Catalogue reference; verify the complete installed chain.
Bently Nevada 330102-00-32-10-02-00	Catalogue reference; verify the complete installed chain.
Bently Nevada 330909-00-30-10-02-00	Catalogue reference; verify the complete installed chain.
Bently Nevada 330180-50-CN	Catalogue reference; verify the complete installed chain.
Bently Nevada 330130-080-00-00	Catalogue reference; verify the complete installed chain.

Discuss the complete marking with Apter Power
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