

Identity and System Role

Bently Nevada 330980-71-00

DIN-mounted 3300 XL NSv Proximity Sensor. It conditions a matched NSv probe-and-extension-cable signal for a machinery-monitoring channel; it is not a standalone proximity probe.

Documented Identity

ITEM	MANUFACTURER-DOCUMENTED FACT
Product family	3300 XL NSv proximity transducer system.
Component	Proximity Sensor, the signal-conditioning stage of the transducer chain.
Order-code option 71	DIN-mounted NSv sensor variant for the specified system configuration.
Final option 00	Agency approval not required for this ordered configuration.
Permitted input	One non-contacting 3300 RAM or 3300 NSv probe with its extension cable.
Connection	Gold-plated brass ClickLoc connectors on the NSv transducer components.

System boundary

The published measurement performance applies to the correctly matched probe, extension cable and Proximity Sensor under the manufacturer's stated test conditions.

Related Products on Apter Power

Bently Nevada 330980-70-05	View Bently Nevada 330980-70-05 page
Bently Nevada 330980-71-BR	View Bently Nevada 330980-71-BR page
Bently Nevada 330930-060-10-00	View Bently Nevada 330930-060-10-00 page
Bently Nevada 330905-00-18-05-02-05	View Bently Nevada 330905-00-18-05-02-05 page
Bently Nevada 330905-08-13-10-12-05	View Bently Nevada 330905-08-13-10-12-05 page
Bently Nevada 330905-00-07-10-02-05	View Bently Nevada 330905-00-07-10-02-05 page

Electrical and Signal Data

Manufacturer Specifications

DOMAIN	PUBLISHED VALUE / CONDITION
Power, no barrier	-17.5 to -26 V DC; 12 mA maximum consumption.
Power, with barrier	-23 to -26 V DC under the stated barrier configuration.
Output resistance	50 ohms.
Supply sensitivity	Less than 2 mV output change per volt of input-voltage change.
Matched-system scale	7.87 V/mm nominal under the stated test conditions.
Matched-system frequency	0 to 10 kHz, +0/-3 dB typical under the published conditions.
Calibration target	AISI 4140 steel is the factory-default target calibration.
Field wiring	Three-conductor shielded triad is recommended between sensor and monitor.

Calibration caution

The manufacturer's system accuracy and interchangeability claims do not apply unchanged when a system is calibrated for another target material. Verify the approved target calibration before interpreting output.

Related Products on Apter Power

Bently Nevada 330905-00-08-10-02-00	View Bently Nevada 330905-00-08-10-02-00 page
Bently Nevada 330905-00-05-10-12-CN	View Bently Nevada 330905-00-05-10-12-CN page
Bently Nevada 330901-11-25-10-01-00	View Bently Nevada 330901-11-25-10-01-00 page
Bently Nevada 330901-00-32-10-02-05	View Bently Nevada 330901-00-32-10-02-05 page
Bently Nevada 330901-00-90-10-02-05	View Bently Nevada 330901-00-90-10-02-05 page
Bently Nevada 330104-08-15-10-02-00	View Bently Nevada 330104-08-15-10-02-00 page

Construction and Applications

Sensor and System Construction

FEATURE	ENGINEERING RELEVANCE
Mounting	Thin Proximitors design supports dense DIN-rail installation.
Terminals	SpringLoc terminal strips support robust field wiring without special tools.
Interference immunity	Improved RFI/EMI immunity supports the documented CE-mark arrangement.
Probe connector	ClickLoc mating interface locks positively into place.
Sensor case	A380 aluminum per the NSv mechanical specification.
Sensor operating temperature	-52 to +100 degrees C.
Sensor storage temperature	-52 to +105 degrees C.

Intended Monitoring Applications

APPLICATION	COMPLETE NSv CHAIN ROLE
Radial vibration	Dynamic shaft-relative monitoring on a fluid-film bearing machine.
Axial position	Static thrust-position sensing against the approved target.
Keyphasor reference	Phase-reference signal for an engineered monitor channel.
Tachometer / zero speed	Speed-related monitoring when the system is configured for that purpose.

Related Products on Apter Power

Bently Nevada 330104-00-07-50-02-00	View Bently Nevada 330104-00-07-50-02-00 page
Bently Nevada 330104-00-24-10-02-00	View Bently Nevada 330104-00-24-10-02-00 page
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Bently Nevada 330104-08-12-10-02-00	View Bently Nevada 330104-08-12-10-02-00 page
Bently Nevada 330104-01-09-50-02-05	View Bently Nevada 330104-01-09-50-02-05 page
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Bently Nevada 330104-00-15-10-02-00	View Bently Nevada 330104-00-15-10-02-00 page
Bently Nevada 330103-00-10-10-02-00	View Bently Nevada 330103-00-10-10-02-00 page

Engineering Decisions and Source Configuration and Acceptance Matrix

DECISION	REQUIRED EVIDENCE
Exact identity	Retain the complete 330980-71-00 marking and DIN-mount configuration.
System pairing	Match the NSv probe, extension cable and Proximitor sensor selection.
Supply and wiring	Check the barrier arrangement, supply and SpringLoc connections.
Calibration	Confirm AISI 4140 default target or an approved alternative.
Channel release	Record static output and controlled functional response.

Model-Specific Questions

QUESTION	ANSWER
What does 330980-71-00 condition?	The matched 3300 XL NSv probe and extension-cable signal.
What does option 71 identify?	The DIN-mounted NSv sensor configuration.
What does option 00 identify?	Agency approvals are not required for this ordered variant.

Manufacturer source record

Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R. Technical and ordering sections: pages 1-6 and 13.

Related Products on Apter Power

Bently Nevada 330103-00-11-50-02-00

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Bently Nevada 330102-00-70-10-01-05

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