

Product Dashboard

Bently Nevada 330980-71-00

DIN-mounted 3300 XL NSv Proximitor Sensor that conditions the matched probe-and-cable signal for shaft-relative machinery monitoring. The published system ratings require a complete matched transducer chain.

Four Documented Highlights

ROLE	MOUNTING	INTERFACE	ORDER OPTION
NSv Proximitor Sensor	DIN-rail arrangement	SpringLoc field terminals and ClickLoc mating	00: approvals not required

System Architecture

SENSING	TRANSFER	CONDITIONING	MONITORING
3300 RAM or NSv probe observes target	Matched extension cable carries probe signal	330980 sensor conditions the eddy-current signal	Monitor interprets position, vibration or phase/speed function

Application boundary

The 3300 XL NSv family addresses compact shaft and restricted viewing installations. Confirm target geometry, calibration and the selected complete-system configuration before use.

Technical Capability Map

Sensor and Matched-System Domains

DOMAIN	PUBLISHED DATA	INTERPRETATION
Sensor power	-17.5 to -26 V DC without barriers; 12 mA maximum	Check the actual installed supply scheme.
Barrier power	-23 to -26 V DC with barriers	Use the applicable approved circuit drawing.
Output	50-ohm output resistance	Review monitor input and field wiring.
System scale	7.87 V/mm nominal under stated conditions	Complete matched NSv system rating.
System response	0 to 10 kHz, +0/-3 dB typical	Complete system under published conditions.
Calibration	AISI 4140 steel factory default	Other target materials require requested calibration.
Sensor environment	-52 to +100 degrees C operating	Applies to the Proximitor Sensor.

Key engineering distinction

The Proximitor Sensor is the conditioning component; do not attribute complete-system scale or frequency ratings to an unconnected individual sensor.

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Applications and Integration

Manufacturer-Described Uses

MACHINE / FUNCTION	COMPLETE NSv SYSTEM ROLE
Centrifugal air compressor	Constrained mounting and shaft-relative monitoring.
Refrigeration compressor	Non-contact vibration or position monitoring.
Process gas compressor	Compact proximity monitoring under approved conditions.
Radial vibration	Dynamic fluid-film-bearing shaft motion.
Axial position	Thrust-position measurement against approved target.
Keyphasor / speed	Engineered phase or speed reference channel.

Integration Sequence

IDENTIFY	PAIR	WIRE	ACCEPT
Confirm exact 330980-71-00 marking	Select matching NSv probe and cable	Verify SpringLoc power and monitor wiring	Record static output and controlled response

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Bently Nevada 330901-11-25-10-01-00	View Bently Nevada 330901-11-25-10-01-00 page

Engineering Decisions and Precautions

Decision Matrix

QUESTION	DOCUMENTED ANSWER
What component is 330980-71-00?	A 3300 XL NSv Proximitior Sensor, not the loose probe.
How is 330980-71-00 mounted?	Its 71 variant uses the DIN-mount arrangement.
What does final 00 denote?	Agency approvals not required for this variant.
What is its standard target?	AISI 4140 steel factory-default calibration.

Eight Release Precautions

1 - 4	5 - 8
1. Retain the full sensor marking and mounting option.	5. Verify barrier/no-barrier supply limits.
2. Match the NSv probe and extension cable.	6. Preserve the documented shield and terminal wiring.
3. Confirm the approved target calibration.	7. Check the monitored static output.
4. Inspect and protect ClickLoc joints.	8. Document functional response before release.

Controlled handover

The complete system is released only after identity, pairing, power, target calibration, channel settings and functional response are documented.

Sources, Portfolio and Contact

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 330104-00-07-50-02-00

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