

INDUSTRIAL AUTOMATION PRODUCT

330910-00-05-50-02-00

3300 XL NSv Armored Metric Proximity Probe

330910-00-05-50-02-00 senses shaft-to-bearing relative displacement through the compact NSv eddy-current probe geometry and sends the signal to a matched NSv Proximity Sensor.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3300 XL NSv Proximity Transducer System
Part number	330910-00-05-50-02-00
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	VALUE
Complete order number	330910-00-05-50-02-00
Probe construction	Armored
Thread	M10 x 1
Unthreaded length	0 mm
Case length	50 mm
Total probe length	5.0 m
Connector option	Miniature coaxial ClickLoc
Probe-cable type	Standard cable
Approval option	Not required
Probe-tip diameter	5.26 mm maximum
System linear range	1.5 mm (60 mils)
Approximate linear-range limits	0.25 to 1.75 mm

PARAMETER	VALUE
Approximate output span	-1 to -13 V DC
Recommended gap	1.0 mm (40 mils)
Incremental scale factor	7.87 V/mm (200 mV/mil)
Scale-factor tolerance	+12.5% / -20%
Deviation from straight line	Less than +/-0.06 mm
Probe-cable impedance	75 ohm
Probe temperature	-52 to +177 degC
Proximito Sensor supply	-17.5 to -26 V DC
Proximito Sensor current	12 mA maximum
Proximito Sensor output resistance	50 ohm
Field-wiring conductor range	0.2 to 1.5 mm ²
Maximum field-wiring length	305 m

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	3300 XL NSv Proximito Sensor
Companion hardware	Compatible Bently Nevada monitor channel
Field connection	AISI 4140 steel target or validated equivalent
Primary system function	Uses armored metric construction for protected probe-lead routing
Controlled acceptance duty	Confined radial shaft-vibration measurement

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System Role and Architecture

330910-00-05-50-02-00 senses shaft-to-bearing relative displacement through the compact NSv eddy-current probe geometry and sends the signal to a matched NSv Proximito Sensor.

FUNCTION 1

Uses armored metric construction for protected probe-lead routing

FUNCTION 2

Fits an M10 x 1 threaded mounting position in confined machinery

FUNCTION 3

Provides the compact side-view performance of the NSv probe family

FUNCTION 4

Completes a matched five-metre NSv transducer arrangement

Matched system components

- 3300 XL NSv Proximito Sensor
- Compatible Bently Nevada monitor channel
- AISI 4140 steel target or validated equivalent
- Approved probe mounting bracket

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3300 XL NSv Proximito Sensor
Companion hardware	Compatible Bently Nevada monitor channel
Field connection	AISI 4140 steel target or validated equivalent
Primary system function	Uses armored metric construction for protected probe-lead routing
Controlled acceptance duty	Confined radial shaft-vibration measurement

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Applications and Engineering Context

Confined radial shaft-vibration measurement

Uses armored metric construction for protected probe-lead routing

Small-shaft axial-position monitoring

Fits an M10 x 1 threaded mounting position in confined machinery

Process-compressor proximity measurement

Provides the compact side-view performance of the NSv probe family

NSv transducer-loop renewal

Completes a matched five-metre NSv transducer arrangement

TECHNICAL NOTE

Match 330910-00-05-50-02-00 to the documented five-metre NSv Proximitor Sensor. Protect the armored lead and ClickLoc connection, set the static gap inside the NSv linear region, and prove channel polarity and response before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330910-00-05-50-02-00 / 330910-00-05-50-02-00 recorded
Physical interface	3300 XL NSv Proximitor Sensor
Companion check	Compatible Bently Nevada monitor channel
Functional proof	Uses armored metric construction for protected probe-lead routing
Application test	Confined radial shaft-vibration measurement

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Engineering Precautions

1

Verify the complete 330910-00-05-50-02-00 marking, M10 x 1 thread and 50 mm case before removal.

2

Place the monitored machine and protection channel in the approved maintenance state.

3

Protect the compact NSv probe tip and threaded case from impact and contamination.

4

Support the five-metre armored lead so it cannot kink, rub or carry tensile load.

5

Keep the ClickLoc coaxial connection clean, dry and fully engaged.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330171-00-08-10-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-08-10-01-05 page
330172-00-08-10-01-05	3300 XL 5/8 mm armored proximity probe	View 330172-00-08-10-01-05 page
330103-00-04-10-02-00	3300 XL 8 mm metric proximity probe	View 330103-00-04-10-02-00 page
330103-00-12-10-02-00	3300 XL 8 mm metric proximity probe	View 330103-00-12-10-02-00 page
330103-00-16-10-02-05	3300 XL 8 mm metric proximity probe	View 330103-00-16-10-02-05 page
330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	View 330106-05-30-05-02-00 page
330130-045-00-00	3300 XL standard extension cable	View 330130-045-00-00 page
330130-080-02-05	3300 XL extension cable	View 330130-080-02-05 page

MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet

147385 Rev. R

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