

APTER POWER

COMPLETE PRODUCT INFORMATION

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.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3300 XL NSv Proximity Transd

PART

330910-00-05-50-02-00

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

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 Proximitor Sensor.

- 1 Uses armored metric construction for protected probe-lead routing
- 2 Fits an M10 x 1 threaded mounting position in confined machinery
- 3 Provides the compact side-view performance of the NSv probe family
- 4 Completes a matched five-metre NSv transducer arrangement

SYSTEM COMPONENTS

3300 XL NSv Proximitor Sensor

Compatible Bently Nevada monitor channel

AISI 4140 steel target or validated equivalent

Approved probe mounting bracket

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.

TECHNICAL DATA

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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER 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
330850-50-00	3300 XL NSv Proximito Sensor	View 330850-50-00 page
330171-00-12-50-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-12-50-01-05 page
330171-00-12-05-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-12-05-01-05 page
330171-00-33-50-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-33-50-01-05 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Confirm the selected NSv Proximity Sensor matches the five-metre probe system.
- 7 Set static gap within the documented NSv linear region while preserving shaft clearance.
- 8 Verify polarity, dynamic response and alarm action before restoring protection service.

ENGINEER FAQ

Q1 Does 330910-00-05-50-02-00 match 3300 XL NSv Proximity Sensor in a Confined radial shaft-vibration measurement installation?

Verify the complete 330910-00-05-50-02-00 marking, the documented Bently Nevada 3300 XL NSv Proximity Transducer System position and the installed 3300 XL NSv Proximity Sensor before fitting the assembly.

Q3 Which Bently Nevada 3300 XL NSv Proximity Transducer System records should be captured before removing 330910-00-05-50-02-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330910-00-05-50-02-00 before disconnection.

Q5 Which Compatible Bently Nevada monitor channel condition should be checked when 330910-00-05-50-02-00 reports an abnormal state?

Check the Compatible Bently Nevada monitor channel supply, seating and connection first, then compare channel diagnostics with the recorded 330910-00-05-50-02-00 baseline.

Q7 What maintenance evidence is required after 330910-00-05-50-02-00 is used for Process-compressor proximity measurement?

Retain the nameplate record, corrective action, final diagnostics and a controlled process-compressor proximity measurement functional-test result for 330910-00-05-50-02-00.

Q2 How should 330910-00-05-50-02-00 be wired when it must uses armored metric construction for protected probe-lead routing?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330910-00-05-50-02-00; then continuity-test the affected path.

Q4 What controlled test confirms that 330910-00-05-50-02-00 can fits an m10 x 1 threaded mounting position in confined machinery?

Apply the approved field or simulated stimulus, observe the Bently Nevada 3300 XL NSv Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 330910-00-05-50-02-00 be moved directly into Small-shaft axial-position monitoring without validating Approved probe mounting bracket?

No. Confirm the Approved probe mounting bracket, revision, connection scheme and Bently Nevada 3300 XL NSv Proximity Transducer System configuration before transferring 330910-00-05-50-02-00 to that duty.

Q8 How should 330910-00-05-50-02-00 be returned to service in NSv transducer-loop renewal?

Restore power under control, verify provides the compact side-view performance of the nsv probe family, exercise the intended signal path and release 330910-00-05-50-02-00 only after the Bently Nevada 3300 XL NSv Proximity Transducer System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet | 147385 Rev. R

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com