

APTER POWER

COMPLETE PRODUCT INFORMATION

330910-00-07-05-02-05

3300 XL NSv M10 x 1 armored proximity probe

Non-contact eddy-current displacement signal from a conductive shaft or target

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL NSv Proximity Transducer System

PART

330910-00-07-05-02-05

ORIGIN / HS

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PRODUCT OVERVIEW

Non-contact eddy-current displacement signal from a conductive shaft or target

1

Uses an M10 x 1 armored probe body

2

Combines a 70 mm case with a 0.5 m lead

3

Terminates in a miniature ClickLoc connection

4

Operates in a matched 3300 XL NSv transducer system

SYSTEM COMPONENTS

3300 XL NSv Proximator Sensor

Matched NSv extension cable when required

Conductive machine shaft

Compatible Bently Nevada monitor channel

TECHNICAL NOTE

Verify the full 330910-00-07-05-02-05 marking, M10 x 1 mounting, 70 mm case, 0.5 m lead and matched NSv system length before gap adjustment.

TECHNICAL DATA

PARAMETER	VALUE
Probe model	330910
Probe thread	M10 x 1
Armor	Yes
Unthreaded length	0 mm
Overall case length	70 mm
Total probe length	0.5 m (20 in)
Connector	Miniature coaxial ClickLoc
Probe cable	Standard FEP-insulated coaxial
Approval suffix	Multiple approvals
Probe DC resistance	4.0 +/-0.5 Ohm
Power without barriers	-17.5 to -26 V DC; 12 mA maximum
Power with barriers	-23 to -26 V DC

PARAMETER	VALUE
Supply sensitivity	<2 mV/V
Output resistance	50 Ohm
Field-wire conductor range	0.2 to 1.5 mm ² (16 to 24 AWG)
Maximum field-wire length	305 m (1000 ft)
Linear range	1.5 mm (60 mils)
Linear-range limits	0.25 to 1.75 mm (10 to 70 mils)
Recommended gap	1.0 mm (40 mils)
Incremental scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz; +0/-3 dB typical
Minimum flat target	8.9 mm diameter
Recommended flat target	13 mm diameter minimum

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330905-00-25-05-12-CN	Related Bently Nevada product	View 330905-00-25-05-12-CN page
330104-05-10-50-02-05	Related Bently Nevada product	View 330104-05-10-50-02-05 page
330103-02-10-10-01-CN	Related Bently Nevada product	View 330103-02-10-10-01-CN page
330102-00-40-90-11-05	Related Bently Nevada product	View 330102-00-40-90-11-05 page
330102-00-16-90-11-05	Related Bently Nevada product	View 330102-00-16-90-11-05 page
330102-00-16-10-02-05	Related Bently Nevada product	View 330102-00-16-10-02-05 page
330101-00-16-10-01-05	Related Bently Nevada product	View 330101-00-16-10-01-05 page
PN-173123	Related Bently Nevada product	View PN-173123 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Small-shaft radial vibration

Uses an M10 x 1 armored probe body

Axial position measurement

Combines a 70 mm case with a 0.5 m lead

Tachometer and phase reference

Terminates in a miniature ClickLoc connection

NSv probe-loop renewal

Operates in a matched 3300 XL NSv transducer system

PRODUCT PRECAUTIONS

- 1 Verify the complete 330910-00-07-05-02-05 marking, M10 x 1 armored construction and assigned measuring point before work.
- 2 Place the monitored machine and its protection channel in the approved maintenance state before disturbing the probe.
- 3 Protect the probe tip and M10 x 1 armored interface from impact, burrs, contamination and unintended side-view metal.
- 4 Route and support the 0.5 m probe lead without sharp bends, crushing, tensile load or contact with hot and moving surfaces.
- 5 Keep every ClickLoc interface clean, dry and fully engaged; preserve connector-protector hardware where supplied.
- 6 Confirm the matched 3300 XL NSv Proximity Sensor, total system length and target material before setting the static gap.
- 7 Maintain the documented probe-tip separation where adjacent channels could create cross-talk.
- 8 Prove gap voltage, polarity, dynamic response and alarm action before returning the protection channel to service.

ENGINEER FAQ

Q1 Does 330910-00-07-05-02-05 match 3300 XL NSv Proximitor Sensor in a Small-shaft radial vibration installation?

Verify the complete 330910-00-07-05-02-05 marking, the documented 3300 XL NSv Proximity Transducer System position and the installed 3300 XL NSv Proximitor Sensor before fitting the assembly.

Q3 Which 3300 XL NSv Proximity Transducer System records should be captured before removing 330910-00-07-05-02-05?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330910-00-07-05-02-05 before disconnection.

Q5 Which Matched NSv extension cable when required condition should be checked when 330910-00-07-05-02-05 reports an abnormal state?

Check the Matched NSv extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330910-00-07-05-02-05 baseline.

Q7 What maintenance evidence is required after 330910-00-07-05-02-05 is used for Tachometer and phase reference?

Retain the nameplate record, corrective action, final diagnostics and a controlled tachometer and phase reference functional-test result for 330910-00-07-05-02-05.

Q2 How should 330910-00-07-05-02-05 be wired when it must uses an m10 x 1 armored probe body?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330910-00-07-05-02-05; then continuity-test the affected path.

Q4 What controlled test confirms that 330910-00-07-05-02-05 can combines a 70 mm case with a 0.5 m lead?

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

Q6 Can 330910-00-07-05-02-05 be moved directly into Axial position measurement without validating Compatible Bently Nevada monitor channel?

No. Confirm the Compatible Bently Nevada monitor channel, revision, connection scheme and 3300 XL NSv Proximity Transducer System configuration before transferring 330910-00-07-05-02-05 to that duty.

Q8 How should 330910-00-07-05-02-05 be returned to service in NSv probe-loop renewal?

Restore power under control, verify terminates in a miniature clickloc connection, exercise the intended signal path and release 330910-00-07-05-02-05 only after the 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

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