

INDUSTRIAL AUTOMATION PRODUCT

330910-00-07-05-02-CN

3300 XL NSv M10 x 1 armored proximity probe

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

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL NSv Proximity Transducer System
Part number	330910-00-07-05-02-CN
Country	USA
HS code	8537101190

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2

Technical Specifications

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

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	Country-specific CN suffix
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

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	3300 XL NSv Proximitors Sensor
Companion hardware	Matched NSv extension cable when required
Field connection	Conductive machine shaft
Primary system function	Uses an M10 x 1 armored probe body
Controlled acceptance duty	Small-shaft radial vibration

3

System Role and Architecture

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

FUNCTION 1

Uses an M10 x 1 armored probe body

FUNCTION 2

Combines a 70 mm case with a 0.5 m lead

FUNCTION 3

Terminates in a miniature ClickLoc connection

FUNCTION 4

Operates in a matched 3300 XL NSv transducer system

Matched system components

- 3300 XL NSv Proximitior Sensor
- Matched NSv extension cable when required
- Conductive machine shaft
- Compatible Bently Nevada monitor channel

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3300 XL NSv Proximitior Sensor
Companion hardware	Matched NSv extension cable when required
Field connection	Conductive machine shaft
Primary system function	Uses an M10 x 1 armored probe body
Controlled acceptance duty	Small-shaft radial vibration

4

Applications and Engineering Context

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

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330910-00-07-05-02-CN / 330910-00-07-05-02-CN recorded
Physical interface	3300 XL NSv Proximitior Sensor
Companion check	Matched NSv extension cable when required
Functional proof	Uses an M10 x 1 armored probe body
Application test	Small-shaft radial vibration

5

Engineering Precautions

- 1 Verify the complete 330910-00-07-05-02-CN 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER 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
3500-05-02-05-00-00-00	Related Bently Nevada product	View 3500-05-02-05-00-00-00 page
16925-60	Related Bently Nevada product	View 16925-60 page
107770-03-03	Related Bently Nevada product	View 107770-03-03 page

MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet

147385 Rev. R

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