

INDUSTRIAL AUTOMATION PRODUCT

330102-04-25-10-02-00

3300 XL 8 mm 3/8-24 UNF armored proximity probe

Non-contact eddy-current displacement signal for machinery protection and condition monitoring

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL 8 mm Proximity Transducer System
Part number	330102-04-25-10-02-00
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

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

PARAMETER	VALUE
Probe model	330102
Probe thread	3/8-24 UNF
Armor	Yes
Unthreaded length	0.4 in
Overall case length	2.5 in
Total probe length	1.0 m (3.3 ft)
Connector	Miniature coaxial ClickLoc
Probe cable	Standard
Agency approval option	Not required
Probe DC resistance	7.59 +/-0.50 Ohm
Power without barriers	-17.5 to -26 V DC; 12 mA maximum

PARAMETER	VALUE
Power with barriers	-23 to -26 V DC
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	2.0 mm (80 mils)
Linear-range limits	0.25 to 2.30 mm (10 to 90 mils)
Recommended radial-vibration gap	-9 V DC; approximately 1.27 mm (50 mils)
Incremental scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz; +/-3 dB
Extension-cable capacitance	69.9 pF/m typical

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	3300 XL 8 mm Proximito Sensor
Companion hardware	Matched 3300 XL extension cable when required
Field connection	AISI 4140 steel target
Primary system function	Uses a 3/8-24 UNF armored case
Controlled acceptance duty	Radial shaft vibration

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System Role and Architecture

Non-contact eddy-current displacement signal for machinery protection and condition monitoring

FUNCTION 1

Uses a 3/8-24 UNF armored case

FUNCTION 2

Provides a 2.5 in case with 0.4 in unthreaded tip

FUNCTION 3

Carries the signal over a 1.0 m standard lead

FUNCTION 4

Forms the probe element of an API 670-compatible transducer system

Matched system components

- 3300 XL 8 mm Proximitior Sensor
- Matched 3300 XL extension cable when required
- AISI 4140 steel target
- Compatible Bently Nevada monitor channel

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3300 XL 8 mm Proximitior Sensor
Companion hardware	Matched 3300 XL extension cable when required
Field connection	AISI 4140 steel target
Primary system function	Uses a 3/8-24 UNF armored case
Controlled acceptance duty	Radial shaft vibration

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Applications and Engineering Context

Radial shaft vibration

Uses a 3/8-24 UNF armored case

Axial thrust position

Provides a 2.5 in case with 0.4 in unthreaded tip

Shaft centerline observation

Carries the signal over a 1.0 m standard lead

Matched 8 mm loop replacement

Forms the probe element of an API 670-compatible transducer system

TECHNICAL NOTE

Confirm the 3/8-24 UNF thread, 2.5 in case, 1.0 m lead and total 3300 XL system length; set gap after mechanical tightening.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330102-04-25-10-02-00 / 330102-04-25-10-02-00 recorded
Physical interface	3300 XL 8 mm Proximitior Sensor
Companion check	Matched 3300 XL extension cable when required
Functional proof	Uses a 3/8-24 UNF armored case
Application test	Radial shaft vibration

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Engineering Precautions

- 1 Verify the complete 330102-04-25-10-02-00 marking, 3/8-24 UNF 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 3/8-24 UNF armored interface from impact, burrs, contamination and unintended side-view metal.
- 4 Route and support the 1.0 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
990-10-50-03-00	Related Bently Nevada product	View 990-10-50-03-00 page
86691-01780-1300-15	Related Bently Nevada product	View 86691-01780-1300-15 page
330880-28-15-044-01-02	Related Bently Nevada product	View 330880-28-15-044-01-02 page
330103-02-08-50-11-00	Related Bently Nevada product	View 330103-02-08-50-11-00 page
330102-00-31-05-02-00	Related Bently Nevada product	View 330102-00-31-05-02-00 page
330104-00-15-50-12-00	Related Bently Nevada product	View 330104-00-15-50-12-00 page
330172-08-12-50-02-00	Related Bently Nevada product	View 330172-08-12-50-02-00 page
330174-00-08-50-02-05	Related Bently Nevada product	View 330174-00-08-50-02-05 page

MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet

141194 Rev. AM

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