

APTER POWER

COMPLETE PRODUCT INFORMATION

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

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 8 mm Proximity Transducer System

PART

330102-04-25-10-02-00

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

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

- 1 Uses a 3/8-24 UNF armored case
- 2 Provides a 2.5 in case with 0.4 in unthreaded tip
- 3 Carries the signal over a 1.0 m standard lead
- 4 Forms the probe element of an API 670-compatible transducer system

SYSTEM COMPONENTS

3300 XL 8 mm Proximitior Sensor

Matched 3300 XL extension cable when required

AISI 4140 steel target

Compatible Bently Nevada monitor channel

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.

TECHNICAL DATA

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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
125065-12	Related Bently Nevada product	View 125065-12 page
330101-00-08-10-01-00	Related Bently Nevada product	View 330101-00-08-10-01-00 page
330101-00-13-30-02-05	Related Bently Nevada product	View 330101-00-13-30-02-05 page
330104-04-10-50-02-05	Related Bently Nevada product	View 330104-04-10-50-02-05 page
330101-51-82-10-01-05	Related Bently Nevada product	View 330101-51-82-10-01-05 page
330101-35-62-10-01-05	Related Bently Nevada product	View 330101-35-62-10-01-05 page
330102-00-83-50-02-05	Related Bently Nevada product	View 330102-00-83-50-02-05 page
330104-00-09-50-02-00	Related Bently Nevada product	View 330104-00-09-50-02-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Confirm the matched 3300 XL 8 mm Proximitar 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 330102-04-25-10-02-00 match 3300 XL 8 mm Proximator Sensor in a Radial shaft vibration installation?

Verify the complete 330102-04-25-10-02-00 marking, the documented 3300 XL 8 mm Proximity Transducer System position and the installed 3300 XL 8 mm Proximator Sensor before fitting the assembly.

Q3 Which 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330102-04-25-10-02-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330102-04-25-10-02-00 before disconnection.

Q5 Which Matched 3300 XL extension cable when required condition should be checked when 330102-04-25-10-02-00 reports an abnormal state?

Check the Matched 3300 XL extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330102-04-25-10-02-00 baseline.

Q7 What maintenance evidence is required after 330102-04-25-10-02-00 is used for Shaft centerline observation?

Retain the nameplate record, corrective action, final diagnostics and a controlled shaft centerline observation functional-test result for 330102-04-25-10-02-00.

Q2 How should 330102-04-25-10-02-00 be wired when it must uses a 3/8-24 unf armored case?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330102-04-25-10-02-00; then continuity-test the affected path.

Q4 What controlled test confirms that 330102-04-25-10-02-00 can provides a 2.5 in case with 0.4 in unthreaded tip?

Apply the approved field or simulated stimulus, observe the 3300 XL 8 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 330102-04-25-10-02-00 be moved directly into Axial thrust position without validating Compatible Bently Nevada monitor channel?

No. Confirm the Compatible Bently Nevada monitor channel, revision, connection scheme and 3300 XL 8 mm Proximity Transducer System configuration before transferring 330102-04-25-10-02-00 to that duty.

Q8 How should 330102-04-25-10-02-00 be returned to service in Matched 8 mm loop replacement?

Restore power under control, verify carries the signal over a 1.0 m standard lead, exercise the intended signal path and release 330102-04-25-10-02-00 only after the 3300 XL 8 mm Proximity Transducer System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet | 141194 Rev. AM

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