

APTER POWER

COMPLETE PRODUCT INFORMATION

330104-00-04-50-02-00

3300 XL 8 mm metric armored proximity probe

It senses shaft-to-bearing distance without contact and supplies the probe signal to a matched 3300 XL 8 mm Proximity Sensor.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 8 mm Proximity Transducer System

PART

330104-00-04-50-02-00

ORIGIN / HS

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APTER POWER SALES TEAM

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PRODUCT OVERVIEW

It senses shaft-to-bearing distance without contact and supplies the probe signal to a matched 3300 XL 8 mm Proximitor Sensor.

1

Uses an armored five-metre probe lead

2

Fits an M10 x 1 metric mounting thread

3

Protects the probe cable with stainless-steel armor

4

Provides the sensing element for static position and dynamic vibration

SYSTEM COMPONENTS

3300 XL 8 mm Proximitor Sensor

compatible 3300 XL extension cable when required

AISI 4140 steel target

Bently Nevada monitor channel

TECHNICAL NOTE

Confirm the M10 x 1 bracket thread and 40 mm case clearance, do not exceed the documented thread engagement, protect the armored lead from side load, and set the probe gap only after the matched system is assembled.

TECHNICAL DATA

PARAMETER	VALUE
Part number	330104-00-04-50-02-00
Probe thread	M10 x 1
Cable armor	Stainless steel with FEP jacket
Unthreaded length	0 mm
Overall case length	40 mm
Total probe length	5.0 m
Connector	Miniature coaxial ClickLoc
Connector protector	Not included
Agency approval option	00
Probe tip material	Polyphenylene sulfide (PPS)

PARAMETER	VALUE
Probe case material	AISI 303 or 304 stainless steel
Cable impedance	75 ohm triaxial
Cable insulation	FEP
Minimum cable bend radius	25.4 mm (1.0 in)
Maximum probe-to-lead tensile strength	330 N (75 lbf)
Maximum lead-to-extension tensile strength	270 N (60 lbf)
Connector material	Gold-plated brass or beryllium copper
Recommended connector torque	Finger tight
Maximum connector torque	0.565 N m (5 in lbf)
Standard probe temperature	-52 to +177 degC

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330130-045-00-00	Related Bently Nevada product	View 330130-045-00-00 page
3500-94	Related Bently Nevada product	View 3500-94 page
990-04-50-01-00	Related Bently Nevada product	View 990-04-50-01-00 page
3500-45-176449-04	Related Bently Nevada product	View 3500-45-176449-04 page
330106-05-30-05-02-00	Related Bently Nevada product	View 330106-05-30-05-02-00 page
330171-00-12-05-01-05	Related Bently Nevada product	View 330171-00-12-05-01-05 page
330171-00-33-50-01-05	Related Bently Nevada product	View 330171-00-33-50-01-05 page
330171-00-12-50-01-05	Related Bently Nevada product	View 330171-00-12-50-01-05 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Radial shaft-vibration measurement

Uses an armored five-metre probe lead

Axial shaft-position monitoring

Fits an M10 x 1 metric mounting thread

Machine centerline observation

Protects the probe cable with stainless-steel armor

Keyphasor reference sensing

Provides the sensing element for static position and dynamic vibration

PRODUCT PRECAUTIONS

- 1 Verify the complete 330104-00-04-50-02-00 marking and its documented 3300 XL 8 mm Proximity Transducer System position before field work.
- 2 Place the monitored machine and associated protection channel in the approved maintenance state before disconnecting 3300 XL 8 mm metric armored proximity probe.
- 3 Protect every exposed connector and cable end from oil, moisture, dirt and impact while 330104-00-04-50-02-00 is open.
- 4 Record probe, extension-cable and Proximitor Sensor identities so the calibrated system length is preserved.
- 5 Route 330104-00-04-50-02-00 without sharp bends, crushing, abrasion or tensile loading at either coaxial termination.
- 6 Clean and finger-tighten each ClickLoc connection; never transfer connector torque or wiring practice from a different transducer family.
- 7 Set the static gap only after mechanical mounting and the complete matched loop have been confirmed.
- 8 Verify polarity, dynamic response and alarm action before returning the machinery-protection channel to service.

ENGINEER FAQ

Q1 Does 330104-00-04-50-02-00 match 3300 XL 8 mm Proximitor Sensor in a Radial shaft-vibration measurement installation?

Verify the complete 330104-00-04-50-02-00 marking, the documented 3300 XL 8 mm Proximity Transducer System position and the installed 3300 XL 8 mm Proximitor Sensor before fitting the assembly.

Q3 Which 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330104-00-04-50-02-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330104-00-04-50-02-00 before disconnection.

Q5 Which compatible 3300 XL extension cable when required condition should be checked when 330104-00-04-50-02-00 reports an abnormal state?

Check the compatible 3300 XL extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330104-00-04-50-02-00 baseline.

Q7 What maintenance evidence is required after 330104-00-04-50-02-00 is used for Machine centerline observation?

Retain the nameplate record, corrective action, final diagnostics and a controlled machine centerline observation functional-test result for 330104-00-04-50-02-00.

Q2 How should 330104-00-04-50-02-00 be wired when it must uses an armored five-metre probe lead?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330104-00-04-50-02-00; then continuity-test the affected path.

Q4 What controlled test confirms that 330104-00-04-50-02-00 can fits an m10 x 1 metric mounting thread?

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 330104-00-04-50-02-00 be moved directly into Axial shaft-position monitoring without validating Bently Nevada monitor channel?

No. Confirm the Bently Nevada monitor channel, revision, connection scheme and 3300 XL 8 mm Proximity Transducer System configuration before transferring 330104-00-04-50-02-00 to that duty.

Q8 How should 330104-00-04-50-02-00 be returned to service in Keyphasor reference sensing?

Restore power under control, verify protects the probe cable with stainless-steel armor, exercise the intended signal path and release 330104-00-04-50-02-00 only after the 3300 XL 8 mm Proximity Transducer System remains in its approved operating state.

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

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