

APTER POWER

COMPLETE PRODUCT INFORMATION

330103-00-16-10-02-05

3300 XL 8 mm Metric Proximity Probe

Bently Nevada 330103-00-16-10-02-05 is a metric 3300 XL 8 mm eddy-current proximity probe with an M10 x 1 case. It senses shaft displacement for a matched Proximitor Sensor and machinery-monitoring channel.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 8 mm Proximity Transducer System

PART

330103-00-16-10-02-05

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Bently Nevada 330103-00-16-10-02-05 is a metric 3300 XL 8 mm eddy-current proximity probe with an M10 x 1 case. It senses shaft displacement for a matched Proximitor Sensor and machinery-monitoring channel.

- 1

Detects shaft-to-bearing relative position without mechanical contact
- 2

Forms the sensing element of a matched 3300 XL 8 mm transducer system
- 3

Carries the eddy-current probe signal through a standard FEP-insulated triaxial lead
- 4

Hazardous-area machinery monitoring with a 160 mm metric case

SYSTEM COMPONENTS

- 3300 XL 8 mm Proximitor Sensor
- matched 3300 XL extension cable when required
- AISI 4140 steel target
- compatible Bently Nevada monitor channel

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M 176449-01	Four-channel Proximitor monitor	Open product page
125680-01	Internal-termination Proximitor I/O module	Open product page
3500/20 125744-02	3500 rack interface module	Open product page
3500/45 140072-04	Position-monitor channel hardware	Open product page
330130-045-00-00	3300 XL extension cable	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Probe series	3300 XL 8 mm
Probe body thread	M10 x 1
Probe armor	Without armor
Unthreaded length	0 mm
Overall case length	160 mm
Total probe length	1.0 m
Connector	Miniature coaxial ClickLoc
Connector protector	Not included
Cable type	Standard 75 Ohm triaxial

PARAMETER	VALUE
Nominal probe DC resistance	7.59 +/- 0.50 Ohm
Probe case-to-lead tensile rating	330 N maximum
Lead-to-extension connector tensile rating	270 N maximum
Minimum cable bend radius	25.4 mm
Maximum forward-mount torque	33.9 N m
Recommended forward-mount torque	11.2 N m
Standard probe temperature	-52 to +177 degC
Matched-system linear range	2 mm
Matched-system incremental scale factor	7.87 V/mm nominal

TECHNICAL NOTE

Verify the hazardous-area installation drawing, associated barriers and 160 mm mounting geometry before connecting the probe. Preserve the approved grounding, cable routing and entity arrangement while commissioning the 1.0 m system.

Probe case material	AISI 303 or 304 stainless steel
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Recommended shaft diameter	76.2 mm
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APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Radial shaft-vibration measurement

Detects shaft-to-bearing relative position without mechanical contact

Axial position and thrust monitoring

Forms the sensing element of a matched 3300 XL 8 mm transducer system

Machine shaft centerline observation

Carries the eddy-current probe signal through a standard FEP-insulated triaxial lead

Hazardous-area machinery monitoring with a 160 mm metric case

Hazardous-area machinery monitoring with a 160 mm metric case

PRODUCT PRECAUTIONS

- 1 Verify the complete 330103-00-16-10-02-05 approval marking before hazardous-area work.
- 2 Follow the applicable CSA, ATEX or IECEx installation drawing and site permit procedure.
- 3 De-energize associated monitor and barrier circuits before opening the probe connection.
- 4 Confirm the 160 mm case length and insertion depth maintain safe shaft clearance.
- 5 Route the 1.0 m FEP lead through the approved cable path without violating bend radius.
- 6 Maintain shield, grounding and barrier connections exactly as documented for the loop.
- 7 Set probe gap and verify stable bias before enabling the machinery-protection channel.
- 8 Complete controlled signal and alarm tests, then close the hazardous-area inspection record.

ENGINEER FAQ

Q1 Which approvals are selected by the 05 suffix of 330103-00-16-10-02-05?

Approval option 05 identifies CSA, ATEX and IECEx approvals for the specified probe execution.

Q2 What must be checked before installing 330103-00-16-10-02-05 in a hazardous area?

Verify the complete approval marking, zone or division, installation drawing, associated apparatus and site wiring practice.

Q3 What are the physical ordering lengths of 330103-00-16-10-02-05?

It has 0 mm unthreaded length, a 160 mm overall metric case and a 1.0 m total probe length.

Q4 Does 330103-00-16-10-02-05 use FluidLoc cable?

No. Connector option 02 specifies standard cable; FluidLoc is selected by connector options 11 or 12.

Q5 How should 330103-00-16-10-02-05 be wired through a barrier?

Use the applicable Bently Nevada installation drawing and approved barrier arrangement, preserving polarity, shield and grounding requirements.

Q6 What mechanical risk increases with the 160 mm case of 330103-00-16-10-02-05?

Incorrect insertion depth can contact the shaft, while excessive engagement can bind the thread; verify the mounting drawing before energization.

Q7 How is 330103-00-16-10-02-05 validated after hazardous-area maintenance?

Confirm enclosure integrity, connector security, barrier wiring, stable bias, measured response and documented alarm operation.

Q8 Can approval option 00 replace 330103-00-16-10-02-05?

Do not substitute an unapproved execution where the installation requires the CSA, ATEX or IECEx marking represented by suffix 05.