

APTER POWER

COMPLETE PRODUCT INFORMATION

330103-00-04-10-02-00

3300 XL 8 mm Metric Proximity Probe

Bently Nevada 330103-00-04-10-02-00 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

330103-00-04-10-02-00

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PRODUCT OVERVIEW

Bently Nevada 330103-00-04-10-02-00 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

Short-case installations with a 40 mm overall probe body

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	Proximitor I/O module	Open product page
3300 XL 8 mm	Matched proximity transducer family	Open product page
3500/45 140072-04	Position-monitor channel hardware	Open product page
3500/20 125744-02	3500 rack interface module	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	40 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

Set the 40 mm M10 x 1 case at the documented mechanical position and route the integral 1.0 m lead without violating the 25.4 mm bend radius. Gap the matched 3300 XL system against the machine target before validating monitor scaling.

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

Short-case installations with a 40 mm overall probe body

Short-case installations with a 40 mm overall probe body

PRODUCT PRECAUTIONS

- 1 Verify the full 330103-00-04-10-02-00 marking and the 40 mm case before disturbing the bracket.
- 2 Place the monitored machine and protection channel in the approved maintenance state.
- 3 Protect the PPS tip and keep the M10 x 1 thread free from burrs and contamination.
- 4 Route the 1.0 m standard lead without sharp bends, crushing or tensile loading.
- 5 Finger-tighten the ClickLoc connection and keep the exposed connector clean and dry.
- 6 Confirm the installed Proximity Sensor is calibrated for the target material and system length.
- 7 Set static gap within the approved linear region before enabling dynamic measurements.
- 8 Prove polarity, vibration response and alarm action before returning protection service.

ENGINEER FAQ

Q1 What mounting thread does 330103-00-04-10-02-00 use?

It uses an M10 x 1 metric probe body and is supplied without armor.

Q2 What mechanical lengths identify 330103-00-04-10-02-00?

The ordering code specifies 0 mm unthreaded length, a 40 mm overall case and a 1.0 m total probe length.

Q3 Does 330103-00-04-10-02-00 include a connector protector?

No. Connector option 02 is a miniature coaxial ClickLoc connector with standard cable and no protector.

Q4 Does a 330103-00-04-10-02-00 one-meter system need an extension cable?

The manufacturer states that one-meter 3300 XL systems do not use an extension cable; verify the installed Proximity execution.

Q5 What static gap should be checked for 330103-00-04-10-02-00?

Gap the matched system inside its 0.25 to 2.3 mm linear region; the published radial-vibration reference is approximately 1.27 mm or -9 Vdc.

Q6 What cable routing limit applies to 330103-00-04-10-02-00?

Maintain at least the published 25.4 mm cable bend radius and avoid tensile loading at the probe lead and ClickLoc termination.

Q7 How should 330103-00-04-10-02-00 be commissioned after replacement?

Verify target clearance, bias voltage, polarity, dynamic response and the connected monitor's alarm action under controlled conditions.

Q8 Can 330103-00-04-10-02-00 be mixed with non-XL components?

XL and non-XL 5 mm or 8 mm components can be physically and electrically interchangeable, but mixed systems are limited to non-XL performance specifications.