

APTER POWER

COMPLETE PRODUCT INFORMATION

330103-00-12-10-02-00

3300 XL 8 mm Metric Proximity Probe

Bently Nevada 330103-00-12-10-02-00 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

330103-00-12-10-02-00

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PRODUCT OVERVIEW

Bently Nevada 330103-00-12-10-02-00 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

Extended-reach probe mounting with a 120 mm overall 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	120 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

Confirm that the 120 mm case provides the required insertion depth without excessive thread engagement. Support the 1.0 m lead, establish the operating gap and verify the complete 3300 XL loop before commissioning.

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

Extended-reach probe mounting with a 120 mm overall case

Extended-reach probe mounting with a 120 mm overall case

PRODUCT PRECAUTIONS

- 1 Match 330103-00-12-10-02-00 to the drawing that specifies the 120 mm overall case.
- 2 Measure available insertion depth and prevent the probe tip from contacting the shaft during installation.
- 3 Limit thread engagement to the approved mounting arrangement and avoid binding the M10 x 1 body.
- 4 Use the recommended probe-case torque rather than loading the lead or connector.
- 5 Maintain the 25.4 mm minimum bend radius along the integral 1.0 m cable.
- 6 Secure the lead against vibration while leaving service access to the ClickLoc connector.
- 7 Verify static position, scale factor and polarity at the connected monitor channel.
- 8 Document final insertion depth, gap voltage and controlled alarm-test results.

ENGINEER FAQ

Q1 Why is the 120 mm case important when replacing 330103-00-12-10-02-00?

The case length sets the available insertion reach; match the mounting drawing so the probe can be gapped without contacting the shaft.

Q2 What is the unthreaded length of 330103-00-12-10-02-00?

Its AA code is 00, corresponding to 0 mm unthreaded length.

Q3 Which lead and connector arrangement is supplied on 330103-00-12-10-02-00?

It has a 1.0 m standard FEP-insulated triaxial lead and an unprotected miniature coaxial ClickLoc connector.

Q4 What torque practice applies to 330103-00-12-10-02-00?

For a standard forward-mounted probe, the published recommended case torque is 11.2 N m; use the machine-builder procedure where it is more restrictive.

Q5 How should the long body of 330103-00-12-10-02-00 be secured?

Use the approved bracket and thread engagement, prevent binding and support the lead so machine vibration does not load the probe body.

Q6 How is 330103-00-12-10-02-00 checked electrically before start-up?

Confirm loop continuity, expected probe resistance, Proximitor supply and a stable gap voltage before accepting dynamic data.

Q7 What target geometry supports published performance for 330103-00-12-10-02-00?

The published matched-system values use an AISI 4140 steel target with a minimum flat target diameter of 15.2 mm.

Q8 What records should be retained after installing 330103-00-12-10-02-00?

Record case insertion, thread engagement, gap voltage, system components, cable routing and final vibration and alarm-test results.