

APTER POWER

COMPLETE PRODUCT INFORMATION

330103-00-05-05-02-00

3300 XL 8 mm Metric Proximity Probe

Bently Nevada 330103-00-05-05-02-00 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

330103-00-05-05-02-00

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PRODUCT OVERVIEW

Bently Nevada 330103-00-05-05-02-00 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

Compact half-meter probe-lead installations near the monitored bearing

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	50 mm
Total probe length	0.5 m
Connector	Miniature coaxial ClickLoc
Connector protector	Not included
Cable type	Standard 75 Ohm triaxial

PARAMETER	VALUE
Nominal probe DC resistance	7.45 +/- 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

Install the 50 mm case and 0.5 m standard lead only where the Proximity Sensor location preserves the cable bend radius and service access. Confirm the matched loop length and probe resistance before functional testing.

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

Compact half-meter probe-lead installations near the monitored bearing

Compact half-meter probe-lead installations near the monitored bearing

PRODUCT PRECAUTIONS

- 1 Confirm 330103-00-05-05-02-00 and its 0.5 m lead length from the physical marking.
- 2 Verify the 50 mm case clears the shaft throughout the complete machine movement range.
- 3 Do not splice, shorten or sharply bend the integral triaxial probe cable.
- 4 Keep the ClickLoc mating faces free from oil and conductive debris before connection.
- 5 Check the nominal 0.5 m probe resistance as part of the as-found loop record.
- 6 Match the probe, extension cable and Proximitor Sensor to the engineered total system length.
- 7 Establish the required gap against the actual target material under controlled conditions.
- 8 Verify the monitor trend, buffered signal and protection response before release.

ENGINEER FAQ

Q1 What distinguishes the lead on 330103-00-05-05-02-00?

Its CC code 05 identifies a 0.5 m total probe length with standard FEP-insulated triaxial cable.

Q2 What nominal resistance should be expected from 330103-00-05-05-02-00?

The manufacturer lists 7.45 +/- 0.50 Ohm from center to outer conductor for a 0.5 m probe.

Q3 Where is the 50 mm case of 330103-00-05-05-02-00 useful?

It suits compact metric mounting arrangements where the documented bracket provides the required reach and service clearance.

Q4 May the cable of 330103-00-05-05-02-00 be shortened?

No. Preserve the supplied length and use only the extension-cable and Proximitor combination specified for the engineered total system length.

Q5 How should the ClickLoc connector on 330103-00-05-05-02-00 be tightened?

Mate clean gold-plated ClickLoc connectors finger-tight until the locking action clicks; special tools are not required.

Q6 Which environmental limit applies to 330103-00-05-05-02-00?

The standard probe operating and storage range is -52 to +177 degC, subject to the complete installed-system requirements.

Q7 How is cross-talk controlled when two 330103-00-05-05-02-00 probes are close together?

Maintain the manufacturer spacing guidance and verify interaction at operating gap, especially for axial or radial probes installed near each other.

Q8 What final test is required for 330103-00-05-05-02-00?

Confirm gap, polarity, scale, trend direction, buffered signal and protection-channel response before returning the machine to service.