330703-000-060-10-02-00

3300 XL 11 mm metric proximity probe

It is a one-metre M14 x 1.5 eddy-current probe for long-range shaft-position and vibration measurements in a matched 3300 XL 11 mm system.

PRODUCT SNAPSHOT

BRAND
Bently Nevada

FAMILY
3300 XL 11 mm Proximity Transducer System

PART
330703-000-060-10-02-00

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PRODUCT OVERVIEW

It is a one-metre M14 x 1.5 eddy-current probe for long-range shaft-position and vibration measurements in a matched 3300 XL 11 mm system.

1. Uses a 60 mm metric threaded case
2. Provides the 11 mm system sensing element
3. Carries the signal through a one-metre FEP lead
4. Supports the system's extended displacement range

SYSTEM COMPONENTS

- five-metre 3300 XL 11 mm Proximitor Sensor
- four-metre 330730 extension cable
- AISI 4140 steel target
- compatible displacement monitor

TECHNICAL NOTE

Confirm the M14 x 1.5 mounting thread, 60 mm case clearance and five-metre system combination; apply the documented case torque, protect the ClickLoc connector and validate the extended linear measurement before service.

TECHNICAL DATA

PARAMETER	VALUE
Part number	330703-000-060-10-02-00
Probe thread	M14 x 1.5
Cable armor	None
Unthreaded length	0 mm
Overall case length	60 mm
Total probe length	1.0 m
Connector	Miniature coaxial ClickLoc
Connector protector	Not included

PARAMETER	VALUE
Agency approval option	00
Probe resistance	5.9 +/- 0.5 ohm
Probe tip material	PPS
Probe case material	AISI 304 stainless steel
Cable impedance	75 ohm triaxial
Minimum bend radius	25.4 mm (1.0 in)
Recommended case torque	21.1 N m (187 in lbf)

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
CB2W100-064	Related Bently Nevada product	**View CB2W100-064 page**
146056-15-10-02-02-05	Related Bently Nevada product	**View 146056-15-10-02-02-05 page**
146054-32-05-01-05	Related Bently Nevada product	**View 146054-32-05-01-05 page**
146056-38-10-02-02-05	Related Bently Nevada product	**View 146056-38-10-02-02-05 page**
146054-36-05-01-05	Related Bently Nevada product	**View 146054-36-05-01-05 page**
146054-12-05-01-05	Related Bently Nevada product	**View 146054-12-05-01-05 page**
31000-30-05-15-049-01-02	Related Bently Nevada product	**View 31000-30-05-15-049-01-02 page**
330101-00-10-10-01-05	Related Bently Nevada product	**View 330101-00-10-10-01-05 page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Axial shaft-position monitoring

Uses a 60 mm metric threaded case

Differential-expansion measurement

Provides the 11 mm system sensing element

Large-shaft radial vibration

Carries the signal through a one-metre FEP lead

Steam-turbine casing expansion systems

Supports the system's extended displacement range

PRODUCT PRECAUTIONS

1. Verify the complete 330703-000-060-10-02-00 marking and its documented 3300 XL 11 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 11 mm metric proximity probe.
3. Protect every exposed connector and cable end from oil, moisture, dirt and impact while 330703-000-060-10-02-00 is open.
4. Record probe, extension-cable and Proximitor Sensor identities so the calibrated system length is preserved.
5. Route 330703-000-060-10-02-00 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 330703-000-060-10-02-00 match five-metre 3300 XL 11 mm Proximitor Sensor in a Axial shaft-position monitoring installation?

Verify the complete 330703-000-060-10-02-00 marking, the documented 3300 XL 11 mm Proximity Transducer System position and the installed five-metre 3300 XL 11 mm Proximitor Sensor before fitting the assembly.

Q2 How should 330703-000-060-10-02-00 be wired when it must uses a 60 mm metric threaded case?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330703-000-060-10-02-00; then continuity-test the affected path.

Q3 Which 3300 XL 11 mm Proximity Transducer System records should be captured before removing 330703-000-060-10-02-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330703-000-060-10-02-00 before disconnection.

Q4 What controlled test confirms that 330703-000-060-10-02-00 can provides the 11 mm system sensing element?

Apply the approved field or simulated stimulus, observe the 3300 XL 11 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which four-metre 330730 extension cable condition should be checked when 330703-000-060-10-02-00 reports an abnormal state?

Check the four-metre 330730 extension cable supply, seating and connection first, then compare channel diagnostics with the recorded 330703-000-060-10-02-00 baseline.

Q6 Can 330703-000-060-10-02-00 be moved directly into Differential-expansion measurement without validating compatible displacement monitor?

No. Confirm the compatible displacement monitor, revision, connection scheme and 3300 XL 11 mm Proximity Transducer System configuration before transferring 330703-000-060-10-02-00 to that duty.

Q7 What maintenance evidence is required after 330703-000-060-10-02-00 is used for Large-shaft radial vibration?

Retain the nameplate record, corrective action, final diagnostics and a controlled large-shaft radial vibration functional-test result for 330703-000-060-10-02-00.

Q8 How should 330703-000-060-10-02-00 be returned to service in Steam-turbine casing expansion systems?

Restore power under control, verify carries the signal through a one-metre fep lead, exercise the intended signal path and release 330703-000-060-10-02-00 only after the 3300 XL 11 mm Proximity Transducer System remains in its approved operating state.

SOURCE 3300 XL 11 mm Proximity Transducer System Datasheet | 146256 Rev. T

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