

APTER POWER

COMPLETE PRODUCT INFORMATION

330103-04-13-10-02-00

3300 XL 8 mm Metric Proximity Probe

330103-04-13-10-02-00 senses shaft-to-bearing relative displacement without mechanical contact and passes the probe signal to a matched Proximitor Sensor for machinery-monitoring measurement.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3300 XL 8 mm Proximity Trans

PART

330103-04-13-10-02-00

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PRODUCT OVERVIEW

330103-04-13-10-02-00 senses shaft-to-bearing relative displacement without mechanical contact and passes the probe signal to a matched Proximitor Sensor for machinery-monitoring measurement.

1

Uses the without armor probe construction selected by 330103-04-13-10-02-00

2

Fits the documented M10 x 1 mounting thread

3

Carries the eddy-current signal through the selected standard cable lead

4

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

SYSTEM COMPONENTS

3300 XL 8 mm Proximitor Sensor

Matched 3300 XL extension cable when required

AISI 4140 steel target or validated equivalent

Compatible Bently Nevada monitor channel

TECHNICAL NOTE

Match 330103-04-13-10-02-00 to a 3300 XL 8 mm Proximitor Sensor and the approved total system length. Set the static gap in the linear region, route the probe lead without tensile loading, and verify polarity and response before enabling protection logic.

TECHNICAL DATA

PARAMETER	VALUE
Complete order number	330103-04-13-10-02-00
Probe construction	Without armor
Thread	M10 x 1
Unthreaded length	40 mm
Case length	130 mm
Total probe length	1.0 m
Connector option	Miniature coaxial ClickLoc
Probe-cable type	Standard cable
Approval option	Not required
Probe-tip diameter	8.0 mm
System linear range	2.0 mm (80 mils)
Approximate linear-range limits	0.25 to 2.3 mm
Approximate output span	-1 to -17 V DC
Recommended gap	1.27 mm (50 mils)

PARAMETER	VALUE
Nominal output at recommended gap	-9 V DC
Incremental scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz, +0/-3 dB
Minimum flat-target diameter	15.2 mm
Minimum shaft diameter	50.8 mm
Recommended shaft diameter	76.2 mm
Probe-cable impedance	75 ohm
Standard probe-cable temperature	-52 to +177 degC
Proximator Sensor supply	-17.5 to -26 V DC
Proximator Sensor current	12 mA maximum
Proximator Sensor output resistance	50 ohm
Field-wiring conductor range	0.2 to 1.5 mm ² (16 to 24 AWG)
Maximum field-wiring length	305 m

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330171-00-12-05-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-12-05-01-05 page
330171-00-33-50-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-33-50-01-05 page
330171-00-08-10-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-08-10-01-05 page
330172-00-08-10-01-05	3300 XL 5/8 mm armored proximity probe	View 330172-00-08-10-01-05 page
330103-00-04-10-02-00	3300 XL 8 mm metric proximity probe	View 330103-00-04-10-02-00 page
330103-00-12-10-02-00	3300 XL 8 mm metric proximity probe	View 330103-00-12-10-02-00 page
330103-00-16-10-02-05	3300 XL 8 mm metric proximity probe	View 330103-00-16-10-02-05 page
330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	View 330106-05-30-05-02-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Radial shaft-vibration measurement

Uses the without armor probe construction selected by 330103-04-13-10-02-00

Axial position and thrust monitoring

Fits the documented M10 x 1 mounting thread

Machine shaft centerline observation

Carries the eddy-current signal through the selected standard cable lead

Probe replacement in a matched 3300 XL 8 mm loop

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

PRODUCT PRECAUTIONS

- 1 Verify the full 330103-04-13-10-02-00 marking and the 130 mm case length before disturbing the bracket.
- 2 Place the monitored machine and associated protection channel in the approved maintenance state.
- 3 Protect the 8 mm PPS probe tip and keep the M10 x 1 thread free from burrs and contamination.
- 4 Route the 1.0 m standard cable probe lead without sharp bends, crushing or tensile loading.
- 5 Secure the miniature coaxial clickloc connection and keep exposed coaxial interfaces clean and dry.
- 6 Confirm the installed Proximitar Sensor and total system length match the probe configuration.
- 7 Set the static gap within the documented linear region before enabling dynamic measurements.
- 8 Prove polarity, vibration response and alarm action before returning the protection channel to service.

ENGINEER FAQ

Q1 Does 330103-04-13-10-02-00 match 3300 XL 8 mm Proximitor Sensor in a Radial shaft-vibration measurement installation?

Verify the complete 330103-04-13-10-02-00 marking, the documented Bently Nevada 3300 XL 8 mm Proximity Transducer System position and the installed 3300 XL 8 mm Proximitor Sensor before fitting the assembly.

Q3 Which Bently Nevada 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330103-04-13-10-02-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330103-04-13-10-02-00 before disconnection.

Q5 Which Matched 3300 XL extension cable when required condition should be checked when 330103-04-13-10-02-00 reports an abnormal state?

Check the Matched 3300 XL extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330103-04-13-10-02-00 baseline.

Q7 What maintenance evidence is required after 330103-04-13-10-02-00 is used for Machine shaft centerline observation?

Retain the nameplate record, corrective action, final diagnostics and a controlled machine shaft centerline observation functional-test result for 330103-04-13-10-02-00.

Q2 How should 330103-04-13-10-02-00 be wired when it must uses the without armor probe construction selected by 330103-04-13-10-02-00?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330103-04-13-10-02-00; then continuity-test the affected path.

Q4 What controlled test confirms that 330103-04-13-10-02-00 can fits the documented m10 x 1 mounting thread?

Apply the approved field or simulated stimulus, observe the Bently Nevada 3300 XL 8 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 330103-04-13-10-02-00 be moved directly into Axial position and thrust monitoring without validating Compatible Bently Nevada monitor channel?

No. Confirm the Compatible Bently Nevada monitor channel, revision, connection scheme and Bently Nevada 3300 XL 8 mm Proximity Transducer System configuration before transferring 330103-04-13-10-02-00 to that duty.

Q8 How should 330103-04-13-10-02-00 be returned to service in Probe replacement in a matched 3300 XL 8 mm loop?

Restore power under control, verify carries the eddy-current signal through the selected standard cable lead, exercise the intended signal path and release 330103-04-13-10-02-00 only after the Bently Nevada 3300 XL 8 mm Proximity Transducer System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet | 141194 Rev. AM

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