

330103-02-12-10-02-00

3300 XL 8 mm Metric Proximity Probe

Bently Nevada 330103-02-12-10-02-00 is a metric M10 × 1 forward-mount 3300 XL 8 mm proximity probe without armor, configured for a 1.0 m total length and standard ClickLoc connection. It senses shaft-to-bearing relative

BRAND	Bently Nevada	FAMILY	Bently Nevada 3300 XL 8 mm Proximity Transducer System
PART	330103-02-12-10-02-00	SYSTEM ROLE	Detects shaft-to-bearing relative movement without mechanical contact

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MANUFACTURER SOURCE RECORD

3300 XL 8 mm Proximity Transducer System Datasheet
Baker Hughes document 141194 Rev. AM

Product Overview

SYSTEM FUNCTION

Bently Nevada 330103-02-12-10-02-00 is a metric M10 × 1 forward-mount 3300 XL 8 mm proximity probe without armor, configured for a 1.0 m total length and standard ClickLoc connection. It senses shaft-to-bearing relative

FUNCTION 1

Detects shaft-to-bearing relative movement without mechanical contact

FUNCTION 2

Forms the field sensing element of the matched eddy-current loop

FUNCTION 3

Carries the probe signal through a serviceable coaxial connection

FUNCTION 4

Supports static-position and vibration measurements in rotating machinery

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Primary interface	Detects shaft-to-bearing relative movement without mechanical contact
Engineering context	The probe is fitted to the engineered M10 × 1 machine position and connected to the selected 3300 XL extension cable and Proximitor Sensor. Commissioning includes exact order-code checks, thread and case clearance, cable routing,
Commissioning duty	Verify polarity, vibration response and alarm action before returning the channel to service.

TECHNICAL NOTE

Install 330103-02-12-10-02-00 in the documented M10 × 1 probe position and preserve the 20 mm unthreaded length, 120 mm case execution and standard lead routing. Match the probe to the approved total system length and Proximi

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Complete order number	330103-02-12-10-02-00	Probe cable	75 Ω triaxial standard cable
Probe construction	Without armor	Agency approval option	Not required
Mounting thread	M10 × 1	Probe-tip material	Polyphenylene sulfide (PPS)
Unthreaded length	20 mm	Probe-case material	AISI 303 or 304 stainless steel
Overall case length	120 mm	Standard probe temperature	-52 to +177 °C
Total probe length	1.0 m	Minimum cable bend radius	25.4 mm
Connector	Miniature coaxial ClickLoc	Recommended mounting torque	11.2 N·m

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
330104-06-12-10-02-00	armored metric probe	View 330104-06-12-10-02-00 page
330101-00-08-05-02-05	imperial proximity probe	View 330101-00-08-05-02-05 page
330101-00-20-20-02-CN	imperial proximity probe	View 330101-00-20-20-02-CN page
330105-02-12-10-02-05	reverse-mount probe	View 330105-02-12-10-02-05 page
330106-05-30-10-02-05	metric reverse-mount probe	View 330106-05-30-10-02-05 page
330130-080-00-00	standard extension cable	View 330130-080-00-00 page
330180-50-00	Proximito sensor	View 330180-50-00 page
330103-00-04-10-02-00	metric proximity probe	View 330103-00-04-10-02-00 page

ENGINEERING BOUNDARY

Confirm 330103-02-12-10-02-00, M10 × 1 host thread, 20 mm unthreaded length, 120 mm case execution, unarmored lead, ClickLoc connector, extension cable, Proximito Sensor, total system length, target material, wiring, shielding, grounding, monitor configuration, static gap and control

Applications and Precautions

Common Applications

Radial shaft-vibration measurement

Measures relative shaft motion at a documented bearing location.

Axial position supervision

Observes controlled thrust-position movement with the approved target geometry.

Machine shaft centerline trending

Provides gap-voltage data for startup and operating-position analysis.

Probe-loop replacement

Restores a matched transducer loop requiring the 20 mm by 120 mm metric probe execution.

Product Precautions

- 1

Confirm the full 330103-02-12-10-02-00 marking and the 20 mm / 120 mm case execution.
- 2

Place the monitored machine and protection channel in the approved maintenance state.
- 3

Protect the 8 mm PPS probe tip and keep the M10 × 1 mounting thread clean.
- 4

Route the standard 1.0 m probe lead without crushing, sharp bends or tensile loading.
- 5

Keep the miniature coaxial ClickLoc interfaces clean, dry and finger-tight.
- 6

Match the extension cable and Proximitor Sensor to the approved total system length.
- 7

Set static gap in the documented linear region while maintaining target clearance.
- 8

Verify polarity, vibration response and alarm action before returning the channel to service.

IMPORTANT NOTICE

Confirm 330103-02-12-10-02-00, M10 × 1 host thread, 20 mm unthreaded length, 120 mm case execution, unarmored lead, ClickLoc connector, extension cable, Proximitor Sensor, total system length, target material, wiring, shielding, grounding, monitor configuration, static gap and control

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	330103-02-12-10-02-00
Configuration	Set static gap in the documented linear region while maintaining target clearance.
Functional release	Verify polarity, vibration response and alarm action before returning the channel to service.

Engineer FAQ

Q1 What exact function does 330103-02-12-10-02-00 perform as a 3300 XL 8 mm Metric Proximity Probe?

It is the metric field probe that converts target distance into the eddy-current signal used by the matched 3300 XL loop.

Q3 Which connection checks are required for 330103-02-12-10-02-00?

Inspect the M10 × 1 host thread, target clearance, lead route and clean ClickLoc interfaces.

Q5 Which diagnostic evidence should be reviewed for 330103-02-12-10-02-00?

Review static gap, polarity, channel baseline, monitor status and controlled vibration response.

Q7 How should 330103-02-12-10-02-00 be commissioned after installation?

Set the gap in the linear region, verify polarity and prove the configured alert and danger actions under control.

Q2 Which host system must be confirmed before installing 330103-02-12-10-02-00?

Confirm the documented Bently Nevada 3300 XL 8 mm Proximity Transducer System host and the complete 330103-02-12-10-02-00 marking before work.

Q4 How should the installed configuration for 330103-02-12-10-02-00 be preserved?

Match the installed probe, extension cable and Proximity Sensor to the approved total system length.

Q6 What must be recorded before replacing 330103-02-12-10-02-00?

Record the complete order number, 20 mm unthreaded length, 120 mm case execution, cable route and installed loop components.

Q8 Which model-specific limitation applies to 330103-02-12-10-02-00?

The unarmored construction and exact metric case geometry must match the installed bracket and cable route.

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