

INDUSTRIAL AUTOMATION PRODUCT

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

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Part number	330103-02-12-10-02-00
Product role	Detects shaft-to-bearing relative movement without mechanical contact
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING 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

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record and directly applicable manufacturer documentation.

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

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Primary system role	Detects shaft-to-bearing relative movement without mechanical contact
Connection boundary	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
Controlled acceptance duty	Radial shaft-vibration measurement

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, Proximity Sensor, total system length, target material, wiring, shielding, grounding, monitor configuration, static gap and control

Pre-Installation Checks

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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	330103-02-12-10-02-00
Installed host	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

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

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Bently Nevada 3300 XL 8 mm Proximity Transducer System
2	Without armor
3	Radial shaft-vibration measurement
4	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

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Interface role	Detects shaft-to-bearing relative movement without mechanical contact
Field / power context	The probe is fitted to the engineered M10 × 1 machine position and connected to the selected 3300 XL extension cable and Proximito Sensor. Commissioning includes exact order-code checks, thread and case clearance, cable routing,
Commissioning evidence	Verify polarity, vibration response and alarm action before returning the channel to service.

Installation and Connection Checks

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

2 Match the extension cable and Proximito Sensor to the approved total system length.

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

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

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

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.

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

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	330103-02-12-10-02-00 recorded
Host / carrier	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Physical interface	Detects shaft-to-bearing relative movement without mechanical contact
Configuration	Set static gap in the documented linear region while maintaining target clearance.
Functional proof	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, Proximito Sensor, total system length, target material, wiring, shielding, grounding, monitor configuration, static gap and control

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	330103-02-12-10-02-00
Approved role	Radial shaft-vibration measurement
Final validation	Verify polarity, vibration response and alarm action before returning the channel to service.

Engineering 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.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
330104-00-12-10-02-00	armored metric probe	View 330104-00-12-10-02-00 page
330104-03-06-10-02-00	armored metric probe	View 330104-03-06-10-02-00 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

MANUFACTURER SOURCE RECORD

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

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