

330103-00-12-10-12-05

3300 XL 8 mm Proximity Probe

Bently Nevada 330103-00-12-10-12-05 is a configured 3300 XL 8 mm proximity probe. It detects shaft displacement for a matched Proximitor Sensor and machinery-monitoring channel.

Manufacturer	Bently Nevada
Product family	3300 XL 8 mm Proximity Transducer System
Part number	330103-00-12-10-12-05
Country of origin	USA
Source	3300 XL 8 mm Proximity Transducer System Datasheet — 141194 Rev. AM

Product role

- 1

Senses shaft-to-bearing displacement without physical contact
- 2

Forms the probe element of a matched eddy-current transducer loop
- 3

Carries the probe signal through the specified triaxial lead and connector
- 4

Combines a 120 mm metric case with a moisture-resistant FluidLoc lead

Document purpose

Technical review	Model identity and manufacturer-published values
Installation review	Mounting, connection and companion-hardware checks
Commissioning review	Controlled signal, diagnostic and functional response

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1. Technical specifications

The following values are transcribed only from the manufacturer records named in this document.

Mounting execution	Forward mount without armor
Probe body thread	M10 x 1
Unthreaded length	0 mm
Overall case length	120 mm
Total probe length	1.0 m
Connector execution	Miniature ClickLoc coaxial without protector
Cable execution	FluidLoc PFA
Agency approval option	CSA, ATEX and IECEx
Nominal probe DC resistance	7.59 +/-0.50 Ohm
Probe series	3300 XL 8 mm
Matched-system linear range	2 mm
Incremental scale factor	7.87 V/mm nominal
Frequency response	0 to 10 kHz, +0/-3 dB
Recommended operating gap	1.27 mm approximately
Recommended gap voltage	-9 Vdc approximately
Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 303 or 304 stainless steel
Probe cable impedance	75 Ohm triaxial
Minimum cable bend radius	25.4 mm
Minimum flat target diameter	15.2 mm
Minimum shaft diameter	50.8 mm
Recommended shaft diameter	76.2 mm

Configuration identity checks

Complete model	330103-00-12-10-12-05
Manufacturer part	330103-00-12-10-12-05
Installed family	3300 XL 8 mm Proximity Transducer System
Record authority	141194 Rev. AM

2. System function and integration

Bently Nevada 330103-00-12-10-12-05 is a configured 3300 XL 8 mm proximity probe. It detects shaft displacement for a matched Proximity Sensor and machinery-monitoring channel.

Compatible installation elements

Component 1	3300 XL 8 mm Proximity Sensor
Component 2	matched extension cable when required
Component 3	compatible machinery-protection monitor channel
Component 4	AISI 4140 steel reference target

Engineered application matrix

Hazardous-area extended-reach proximity measurement	Senses shaft-to-bearing displacement without physical contact
Radial shaft-vibration measurement	Forms the probe element of a matched eddy-current transducer loop
Axial position monitoring	Carries the probe signal through the specified triaxial lead and connector
Shaft centerline observation	Combines a 120 mm metric case with a moisture-resistant FluidLoc lead

Related products on Apter Power

330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	Open product page
330103-00-12-10-02-00	3300 XL 8 mm metric probe	Open product page
330103-00-16-10-02-05	3300 XL 8 mm approved probe	Open product page
330130-045-00-00	3300 XL extension cable	Open product page

3. Installation and commissioning controls

Install 330103-00-12-10-12-05 with the documented mechanical reach and cable route, then verify total system length, static gap, polarity and monitor scaling before enabling protection.

- 1

Verify the complete 330103-00-12-10-12-05 marking and mounting geometry before work.
- 2

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

Keep the M10 x 1 mounting surface and PPS tip free from damage and contamination.
- 4

Preserve the 1.0 m integral lead and its published minimum bend radius.
- 5

Mate the Miniature ClickLoc coaxial without protector connection cleanly without applying tensile load.
- 6

Match the probe, extension cable and Proximitor Sensor to the engineered system length.
- 7

Set static gap within the documented linear region while maintaining shaft clearance.
- 8

Prove polarity, dynamic response and alarm action before returning protection service.

Acceptance record

Identity	330103-00-12-10-12-05 recorded
Mounting / connection	3300 XL 8 mm Proximitor Sensor
Companion hardware	matched extension cable when required
Functional duty	Hazardous-area extended-reach proximity measurement
As-left evidence	Connections, diagnostics and controlled response recorded

Return-to-service sequence

1	Confirm physical security and connector condition
2	Restore the documented channel or system configuration
3	Observe stable diagnostics before applying a controlled test
4	Record the final process response and release authorization

4. Engineer FAQ and source record

What installation control is important for 330103-00-12-10-12-05?	Use the model-specific mounting arrangement, protect mating surfaces and maintain the documented cable support and mechanical clearance for 330103-00-12-10-12-05.
How is 330103-00-12-10-12-05 checked during commissioning?	Apply the approved controlled test for hazardous-area extended-reach proximity measurement, verify polarity or direction where applicable, and compare the measured response with the configured channel.
Can parameters from a similar model be used for 330103-00-12-10-12-05?	No. Retain only values and configuration details that apply directly to the complete 330103-00-12-10-12-05 ordering code and installed system.
What maintenance evidence should be retained for 330103-00-12-10-12-05?	Retain the full 330103-00-12-10-12-05 identity, as-left mounting and connections, continuity or bias checks, diagnostics and the final functional-test result.
What should be verified before returning 330103-00-12-10-12-05 to service?	Confirm secure mounting, connector integrity, restored configuration, stable signal behavior and the intended response of the associated monitoring channel.
What must be matched before replacing 330103-00-12-10-12-05?	Match the complete 330103-00-12-10-12-05 marking, 3300 xl 8 mm proximity probe, installed mounting or connector execution and the approved equipment record before removal.
Which system components should be checked with 330103-00-12-10-12-05?	Confirm the installed 3300 XL 8 mm Proximity Sensor, matched extension cable when required and the assigned monitoring or connection point are the documented combination for 330103-00-12-10-12-05.
How should wiring or cabling for 330103-00-12-10-12-05 be recorded?	Record conductor identity, shield termination, connector orientation, cable route and the as-found diagnostic state before disconnecting 330103-00-12-10-12-05.

Manufacturer source identifiers

Document title	3300 XL 8 mm Proximity Transducer System Datasheet
Publication / revision	141194 Rev. AM
Manufacturer	Bently Nevada / Baker Hughes

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