

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.

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330103-00-12-10-12-05

Manufacturer	Bently Nevada
Product name	3300 XL 8 mm Proximity Probe
Product family	3300 XL 8 mm Proximity Transducer System
Part number	330103-00-12-10-12-05
Country of origin	USA

Core system roles

- 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

Engineering note

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. Technical data

Official manufacturer values for the complete product record are arranged below for engineering review.

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 verification

Complete model	330103-00-12-10-12-05
Official product family	3300 XL 8 mm Proximity Transducer System
Primary source	3300 XL 8 mm Proximity Transducer System Datasheet — 141194 Rev. AM
Installation record	Physical marking and installed interfaces retained

2. Functions, components and applications

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

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 Apter Power product pages

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

Integration statement

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

3. Precautions and return-to-service evidence

- 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.

Commissioning evidence matrix

Identity	Full 330103-00-12-10-12-05 marking confirmed
Installed component	3300 XL 8 mm Proximitor Sensor
Paired hardware	matched extension cable when required
Primary duty	Hazardous-area extended-reach proximity measurement
Functional test	Senses shaft-to-bearing displacement without physical contact
Release record	Diagnostics and as-left response retained

Hazardous-area extended-reach proximity measurement	Verify the senses shaft-to-bearing displacement without physical contact response under controlled conditions
Radial shaft-vibration measurement	Verify the forms the probe element of a matched eddy-current transducer loop response under controlled conditions
Axial position monitoring	Verify the carries the probe signal through the specified triaxial lead and connector response under controlled conditions
Shaft centerline observation	Verify the combines a 120 mm metric case with a moisture-resistant fluidloc lead response under controlled conditions

4. Engineer FAQ and controlled 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.	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.
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.	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.
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.	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.
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.	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.

Source identifiers

Manufacturer	Bently Nevada / Baker Hughes
Official document	3300 XL 8 mm Proximity Transducer System Datasheet
Publication / revision	141194 Rev. AM
Applied product	330103-00-12-10-12-05