

330105-02-12-90-12-00

3300 XL 8 mm Proximity Probe

Bently Nevada 330105-02-12-90-12-00 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 name	3300 XL 8 mm Proximity Probe
Product family	3300 XL 8 mm Proximity Transducer System
Part number	330105-02-12-90-12-00
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

Supports reverse-mount probe installation with a long FluidLoc lead

Engineering note

Install 330105-02-12-90-12-00 with the documented mechanical reach and cable route, then verify total system length, static gap, polarity and monitor scaling before enabling protection.

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330105-02-12-90
12-00

1. Technical data

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

Mounting execution	Reverse mount
Probe body thread	3/8-24 UNF
Unthreaded length	Fixed reverse-mount geometry
Overall case length	Fixed 02-12 execution
Total probe length	9.0 m
Connector execution	Miniature ClickLoc coaxial
Cable execution	FluidLoc PFA
Agency approval option	None
Nominal probe DC resistance	9.87 +/-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	330105-02-12-90-12-00
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

Long-lead reverse-mount bearing installation	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	Supports reverse-mount probe installation with a long 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 330105-02-12-90-12-00 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 330105-02-12-90-12-00 marking and mounting geometry before work.

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

3 Keep the 3/8-24 UNF mounting surface and PPS tip free from damage and contamination.

4 Preserve the 9.0 m integral lead and its published minimum bend radius.
- 5 Mate the Miniature ClickLoc coaxial connection cleanly without applying tensile load.

6 Match the probe, extension cable and Proximator 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 330105-02-12-90-12-00 marking confirmed
Installed component	3300 XL 8 mm Proximator Sensor
Paired hardware	matched extension cable when required
Primary duty	Long-lead reverse-mount bearing installation
Functional test	Senses shaft-to-bearing displacement without physical contact
Release record	Diagnostics and as-left response retained

Long-lead reverse-mount bearing installation	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 supports reverse-mount probe installation with a long fluidloc lead response under controlled conditions

4. Engineer FAQ and controlled source record

How is 330105-02-12-90-12-00 checked during commissioning?	Apply the approved controlled test for long-lead reverse-mount bearing installation, verify polarity or direction where applicable, and compare the measured response with the configured channel.
Can parameters from a similar model be used for 330105-02-12-90-12-00?	No. Retain only values and configuration details that apply directly to the complete 330105-02-12-90-12-00 ordering code and installed system.
What maintenance evidence should be retained for 330105-02-12-90-12-00?	Retain the full 330105-02-12-90-12-00 identity, as-left mounting and connections, continuity or bias checks, diagnostics and the final functional-test result.
What should be verified before returning 330105-02-12-90-12-00 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 330105-02-12-90-12-00?	Match the complete 330105-02-12-90-12-00 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 330105-02-12-90-12-00?	Confirm the installed 3300 XL 8 mm Proximator Sensor, matched extension cable when required and the assigned monitoring or connection point are the documented combination for 330105-02-12-90-12-00.
How should wiring or cabling for 330105-02-12-90-12-00 be recorded?	Record conductor identity, shield termination, connector orientation, cable route and the as-found diagnostic state before disconnecting 330105-02-12-90-12-00.
What installation control is important for 330105-02-12-90-12-00?	Use the model-specific mounting arrangement, protect mating surfaces and maintain the documented cable support and mechanical clearance for 330105-02-12-90-12-00.

Source identifiers

Manufacturer	Bently Nevada / Baker Hughes
Official document	3300 XL 8 mm Proximity Transducer System Datasheet
Publication / revision	141194 Rev. AM
Applied product	330105-02-12-90-12-00