

Identity and Sensing Chain

Bently Nevada 330101-00-52-10-02-05

Bently Nevada 330101-00-52-10-02-05 is an unarmored 3300 XL 8 mm proximity probe with an imperial mounting thread and standard ClickLoc connection. In a matched transducer chain, it supports non-contact monitoring of shaft position and vibration.

Ordered Configuration

CODE / PART	DOCUMENTED FUNCTION AND CHECK
330101	Unarmored 3300 XL 8 mm probe with imperial 3/8-24 UNF mounting thread.
Option 02	Miniature coaxial ClickLoc connector; standard cable, no factory protector.
Option 05	CSA, ATEX and IECEx approval selection; verify actual installed marking.
Probe tip	PPS molded tip on a stainless-steel case; identify installed construction.

Four-Stage Measurement Path

STAGE	ROLE	FIELD VERIFICATION
Probe	Non-contact sensing of the conductive shaft target.	Check target and installed gap.
Cable path	Carries the probe signal to the conditioning sensor.	Match the ordered component chain.
Proximitior	Conditions the probe response into an electrical output.	Check power and calibration basis.
Monitor	Evaluates position, vibration or reference signal.	Verify accepted channel response.

Performance boundary

The published scale factor, response and accuracy belong to the correctly paired transducer system under the manufacturer's reference conditions, not to a loose probe alone.

Related Bently Nevada Products on Apter Power

Bently Nevada 330101-00-16-05-11-05
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Bently Nevada 330101-00-18-10-02-00
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Electrical and Service Decisions

Published System Values

DOMAIN	PUBLISHED VALUE OR CONDITION
Probe DC resistance	7.59 +/- 0.50 ohm nominal for the ordered probe-cable option.
System scale factor	7.87 V/mm (200 mV/mil) nominal under reference conditions.
System response	0 to 10 kHz, +0/-3 dB for the matched system.
Sensor supply	-17.5 to -26 Vdc without barriers; -23 to -26 Vdc with barriers.
Output resistance	50 ohm at the Proximator sensor output.
Calibration target	AISI 4140 steel; alternate targets require approved calibration.
Mixed-component chain	XL/non-XL combinations follow non-XL performance limits where applicable.

Connection and Release Logic

CONDITION	FIELD DECISION
Before connection	Inspect the unarmored lead, PPS tip, case and clean ClickLoc faces.
During connection	Mate the miniature coaxial ClickLoc by hand to its positive engagement.
Wet or oil-exposed area	Follow the manufacturer's connector-protection guidance; option 02 has no protector.
Unexpected signal	Review target material, static gap, pairing, cable and Proximator power.
Hazardous-area use	Use the actual 05 approval marking and the matching installation drawing.

Related Bently Nevada Products on Apter Power

Bently Nevada 330101-00-26-05-01-05
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Bently Nevada 330101-00-53-10-12-05
View Bently Nevada 330101-00-53-10-12-05 page
Bently Nevada 330101-00-60-10-02-00
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Bently Nevada 330102-00-40-05-01-00
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Engineering Questions and Sources

Decisions Specific to This Ordering Code

QUESTION	ENGINEERING ANSWER
Which mounting thread must the 330101-00-52-10-02-05 installation accept?	The 330101 ordering family uses a 3/8-24 UNF-2A thread; verify the machine mounting location against this format.
Which connection is specified by the 02 option?	It is the miniature coaxial ClickLoc connector with standard cable and without the connector protector.
What does the final 05 ordering option designate?	The datasheet lists CSA, ATEX and IECEx approvals for option 05; confirm applicability from the installed unit marking and the relevant installation drawing.
What nominal DC resistance applies to the ordered probe?	For the ordered cable option, the published center-to-outer-conductor probe resistance is 7.59 +/- 0.50 ohm.
What target material underlies the published system accuracy?	The standard Proximator is factory calibrated to AISI 4140 steel; the published accuracy and interchangeability limits do not automatically apply to other targets.
What should be checked if an older non-XL component remains in the loop?	The manufacturer permits specified XL/non-XL interchange, but complete-chain performance is then limited to the non-XL system specification.

Canonical manufacturer record

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AN. System, electrical and probe-ordering evidence: pages 1-5 and 13-14. Related links below are Apter Power navigation, not technical evidence.

Related Bently Nevada Products on Apter Power

Bently Nevada 330102-00-40-10-01-05

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