

Product Dashboard

Bently Nevada 330104-08-14-10-02-05

Armored metric 3300 XL 8 mm proximity probe with miniature coaxial ClickLoc connection. In a matched transducer chain it supports non-contact position and vibration monitoring on rotating machinery.

Four Documented Highlights

PROBE IDENTITY	MATING	SYSTEM ROLE	APPROVAL
330104 armored M10 x 1 metric member	Option 02: ClickLoc with standard cable	Static position and dynamic vibration sensing	Final option 05: CSA, ATEX, IECEx

System Position

SENSING	TRANSFER	CONDITIONING	MONITORING
330104 probe observes conductive shaft target	Matched 3300 XL extension cable and ClickLoc connection	3300 XL Proximitors sensor converts gap to conditioned output	Machine monitor evaluates position, vibration, Keyphasor or speed application

Application boundary

The published scale factor, linearity and frequency response describe the properly matched complete system under stated test conditions. They are not standalone properties of a loose probe.

Technical Capability Map

Probe and Completed-System Domains

DOMAIN	PUBLISHED TECHNICAL VALUE	INTERPRETATION
Mechanical	Armored M10 x 1 metric 330104 probe; PPS tip; stainless steel case and armor	Confirm the installed mechanical and material identity.
Electrical interface	75-ohm FEP-insulated triaxial standard cable; miniature coaxial ClickLoc	Mate only the documented cable/connector arrangement.
Probe environment	Standard probe operating and storage temperature -52 to +177 degrees C	Use an approved extended-temperature configuration if required.
System scale	7.87 V/mm (200 mV/mil) nominal under stated conditions	Applies to the matched 3300 XL 8 mm system.
System frequency	0 to 10 kHz, +0/-3 dB for the standard matched system	Check approved field wiring and system configuration.
Calibration	AISI 4140 steel standard target	Other target material needs approved calibration.

Interchangeability

The datasheet allows electrical and physical interchange with selected non-XL 3300-series 5 mm and 8 mm components, but a mixed chain is limited to non-XL system performance.

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Integration and Applications

Four Supported Machinery Uses

APPLICATION	ROLE OF THE COMPLETE PROBE SYSTEM
Radial vibration	Measures dynamic shaft-relative motion at a fluid-film bearing machine.
Axial position	Measures static shaft position against the documented conductive target.
Keyphasor reference	Provides a phase-reference sensing point when the monitoring design requires it.
Speed measurement	Supports engineered speed monitoring; overspeed use needs the manufacturer's specific application review.

Installation Sequence

IDENTIFY	MATE	CONFIGURE	ACCEPT
Confirm 330104 armored metric identity and option codes	Seat the ClickLoc interface and matched cable	Check Proximitor supply, target calibration and monitor channel	Verify static gap and controlled dynamic response

Important notice

Use the documented Bently Nevada source and installation drawings for the actual hazardous-area protection scheme and matched hardware arrangement.

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Engineering Decisions and Precautions

Decision Matrix

QUESTION	DOCUMENTED ANSWER
What connector does 330104-08-14-10-02-05 use?	Option 02 is miniature coaxial ClickLoc with standard cable.
What is final option 05 for 330104-08-14-10-02-05?	CSA, ATEX and IECEx approval selection.
Can 330104-08-14-10-02-05 use earlier 3300 components?	Within interchange limits; non-XL ratings govern a mixed chain.
What target calibrates 330104-08-14-10-02-05?	AISI 4140 steel unless another target calibration is approved.

Eight Release Precautions

1 - 4	5 - 8
1. Match complete marking and armored metric construction.	5. Protect the ClickLoc joint for environmental exposure.
2. Verify matching extension cable and Proximitor sensor.	6. Keep the standard probe inside its temperature rating.
3. Confirm AISI 4140 target calibration basis.	7. Apply non-XL limits if mixed components are used.
4. Finger-tighten the ClickLoc connection until it clicks.	8. Verify static gap and monitored response before release.

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Bently Nevada 330104-01-09-50-02-05	View Bently Nevada 330104-01-09-50-02-05 page

Sources, Portfolio and Contact

Manufacturer source record

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN. Descriptive, technical and ordering sections: pages 1-2, 4-9 and 13-14.

Related Products on Apter Power

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[View Bently Nevada 330104-00-15-10-02-00 page](#)

Bently Nevada 330103-00-10-10-02-00

[View Bently Nevada 330103-00-10-10-02-00 page](#)

Bently Nevada 330103-00-11-50-02-00

[View Bently Nevada 330103-00-11-50-02-00 page](#)

Bently Nevada 330102-00-70-10-01-05

[View Bently Nevada 330102-00-70-10-01-05 page](#)

Bently Nevada 330105-02-12-05-02-00

[View Bently Nevada 330105-02-12-05-02-00 page](#)

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[View Bently Nevada 330103-00-06-10-01-00 page](#)

Bently Nevada 330103-00-04-10-01-05

[View Bently Nevada 330103-00-04-10-01-05 page](#)

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[View Bently Nevada 330103-00-18-10-02-00 page](#)

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330104-08-14-10-02-05