Bently Nevada 330707-00-20-10-02-00

01 Unarmored Eddy-Current Proximity Probe / system role

Product function

Its unarmored standard lead connects into the corresponding extension and Proximitor system; the probe itself is not a conditioned voltage-output instrument.

Selected configuration

The larger-tip system supports applications that need a longer linear measurement range than the standard XL 8 mm system. Target material, surrounding metal and the installed gap are part of the calibration boundary. A mechanically fitting probe is not sufficient evidence of an electrically matched transducer chain.

Integration checkpoints

- Identify the XL 11 mm chain
- Inspect the imperial mounting
- Support the unarmored lead
- Validate the monitor function

Measurement role	non-contact position sensing at the machine target
Mechanical interface	imperial threaded mounting with an unarmored lead
System integration	matched XL 11 mm components and monitor scaling

Upgrading a 7200-series 11 mm or 14 mm installation to XL 11 mm requires replacing the complete transducer component set and reviewing monitor configuration. A single new probe cannot establish that conversion. The retained system and its configured scale must match before protection service resumes.

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02 Technical operating envelope

Probe tip	11 mm	Integral lead	1.0 m
Mounting thread	5/8-18 UNF	Connector	Miniature coaxial ClickLoc, standard cable
Unthreaded length	0.0 in	Matched-system scale factor	3.94 V/mm (100 mV/mil)
Case length	2.0 in	Measurement principle	Non-contact eddy current

Values retain their individual conditions and interface boundaries. System ratings apply to the complete matched chain; mechanical and cable selections apply to 330707-00-20-10-02-00.

How can nearby metal affect a measurement made with 330707-00-20-10-02-00?

Metal within the sensing field can alter the response independently of the intended target. Review mounting clearances and target geometry before interpreting the signal.

Why must 330707-00-20-10-02-00 be tested across a gap range rather than at one position?

A single point can hide a scale or linearity mismatch. A controlled gap sweep checks the direction and proportionality of the complete transducer output.

How should 330707-00-20-10-02-00 unarmored lead be protected at the machine exit?

Provide suitable routing and support against abrasion and pull loads. Standard cable construction does not provide the mechanical protection of an armored execution.

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03 System integration and applications

Axial position measurement

Use the matched XL 11 mm system where the application requires its displacement-measurement characteristics.

Ramp differential expansion

Integrate with the appropriate target geometry and monitoring configuration for the longer-range system.

Reciprocating rod position

Evaluate target material and geometry with the complete compatible transducer chain.

Phase-reference sensing

Use an appropriate target and receiver configuration for repeatable event detection.

System and supply context

The 330707-00-20-10-02-00 belongs to the 3300 XL 11 mm transducer system arrangement with its specified field interfaces.

Application boundary

Applications must satisfy the module or transducer boundary and the actual controller, receiver or target conditions.

Why should 330707-00-20-10-02-00 target material be checked before adjusting the gap?

Eddy-current calibration depends on target properties. A different material can change the response even when the mechanical clearance appears correct.

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04 Engineering selection decisions

Can 330707-00-20-10-02-00 be installed alone to convert a 7200-series measurement to XL 11 mm?

No. The conversion requires the corresponding XL 11 mm probe, extension and conditioner, plus the applicable monitoring-system configuration changes.

Does fitting the 330707-00-20-10-02-00 thread prove compatibility with an existing conditioner?

No. Mechanical fit and transducer electrical compatibility are separate. Match the XL 11 mm component family and total electrical length.

What should be checked before using 330707-00-20-10-02-00 for a phase-reference target?

Confirm target geometry, gap and monitor input configuration for the phase-reference application. A valid static displacement reading does not alone establish clean pulse detection.

Why does changing the extension length behind 330707-00-20-10-02-00 require a system check?

The probe lead and extension together form the conditioner’s electrical-length requirement. A changed cable length can alter calibration even if the connector type is unchanged.

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05 Configuration boundary and references

Lifecycle and support

The current production and manufacturer-support stage of 330707-00-20-10-02-00 is unconfirmed. Replacement planning must preserve the supported system and the supplied hardware execution.

Replacement assessment

Record probe, extension and conditioner references with the monitor scale. Confirm the installation is not an unreviewed mixture with 7200-series components.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; use it together with the applicable manufacturer instructions.

Technical basis

Bently Nevada 3300 XL 11 mm Proximity Transducer System, 146256 Rev. T.

Related product navigation

- Bently Nevada 330103-00-18-05-02-05
- Bently Nevada 330104-00-10-10-02-05

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries