Bently Nevada 330104-00-07-50-02-00

01 Armored Metric Eddy-Current Proximity Probe / system role

Product function and operating context

The long lead forms the electrical connection to the matching five-metre XL 8 mm Proximitor sensor, reducing the need for an intermediate extension junction in that arrangement.

The five-metre probe execution is designed for the corresponding five-metre system. Adding an extension simply to change the route would alter the total electrical length and is not a valid substitute for selecting the correct transducer configuration.

Integration checkpoints

- Verify the five-metre configuration
- Prepare the metric mounting
- Route the integral armored lead
- Release the matched channel

Connection arrangement	long integral lead to the matching conditioner
Mechanical protection	armored cable at the machine interface
Calibration boundary	target, gap and conditioner remain a matched system

The measurement output belongs to the complete system and its calibrated target conditions. Armor protects the cable execution but does not establish fluid-blocking performance. Gap, target material and monitor scaling must be checked separately from the mechanical cable protection.

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02 Technical operating envelope

Probe tip	8 mm	Integral lead	5.0 m
Mounting thread	M10 x 1	Cable execution	Armored standard cable
Unthreaded length	0 mm	Connector	Miniature coaxial ClickLoc
Case length	70 mm	Matched-system scale factor	7.87 V/mm (200 mV/mil)

Values retain their individual conditions and interface boundaries. System ratings apply to the complete matched chain; mechanical and cable selections apply to 330104-00-07-50-02-00.

Why should 330104-00-07-50-02-00 connector condition be inspected before changing alarm settings?

A poor coaxial connection can create unstable gap or vibration indications. Correct the physical signal path before modifying protection thresholds.

What should be checked when routing the long integral lead of 330104-00-07-50-02-00?

Protect the cable from crushing and abrasion while providing support that avoids pulling at the probe. Routing convenience must not lead to cutting or splicing the calibrated lead.

Why is a controlled displacement test useful after installing 330104-00-07-50-02-00?

It checks the full chain’s output direction and scale rather than only one static gap voltage. This helps reveal component or target mismatches before machinery operation.

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03 System integration and applications

Direct five-metre probe connection

Connect the integral lead to the matching system-length conditioner without adding an arbitrary extension.

Metric machinery mounting

Use the M10 mounting interface in a mechanically compatible measurement position.

Protected machine cable routing

Use the armored execution within the approved route and support arrangement.

Shaft-relative measurements

Combine the probe with the correct conditioner and target calibration for the required proximity measurement.

System and supply context

The 330104-00-07-50-02-00 belongs to the 3300 XL 8 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.

Does armor make 330104-00-07-50-02-00 a FluidLoc probe?

No. Armor is mechanical protection; fluid-blocking cable construction is a separate execution. Do not infer an oil-leak barrier from the presence of armor.

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04 Engineering selection decisions

Why should 330104-00-07-50-02-00 not receive an extra extension merely to increase reach?

Its five-metre lead is intended for a five-metre Proximitor system. An added extension changes total electrical length and invalidates that selected combination.

How can 330104-00-07-50-02-00 lose calibration even when its mechanical gap is unchanged?

A mismatched conditioner, changed electrical path or different target material can alter the output. Check the complete transducer chain before adjusting the probe.

Can 330104-00-07-50-02-00 system sensitivity be applied to the bare probe output?

No. The stated scale factor belongs to the matched probe and Proximitor system under its calibration conditions. The bare probe is part of that sensing circuit.

How should 330104-00-07-50-02-00 be accepted when replacing a shorter-lead probe arrangement?

Reconcile the entire electrical-length configuration and conditioner selection. A probe with a longer integral lead is not equivalent to the old probe plus an arbitrary extension.

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05 Configuration boundary and references

Lifecycle and support

The current production and manufacturer-support stage of 330104-00-07-50-02-00 is unconfirmed. Replacement planning must preserve the supported system and the supplied hardware execution.

Replacement assessment

Record the selected conditioner length and complete probe marking. Remove any assumption that the old extension remains required with the new integral lead.

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 8 mm Proximity Transducer System, 141194 Rev. AN.

Related product navigation

- Bently Nevada 330106-05-30-10-02-05
- Bently Nevada 330180-51-05

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

Product enquiries