Bently Nevada 330104-08-15-10-02-00

01 Armored Eddy-Current Proximity Probe / system role

Product function and operating context

Bently Nevada 330104-08-15-10-02-00 requires the bracket engagement and working gap to be checked together so the sensor remains stable through the expected target movement.

The ordered mechanical arrangement has a 150 mm case with a 80 mm unthreaded section. Compare this geometry with the bracket and target position so that the probe can be secured without forcing its cable or shifting the intended sensing direction.

Integration checkpoints

- Fluid-film bearing monitoring
- Static position measurement
- Reference-pulse sensing
- Probe replacement service

Measurement role	Non-contact shaft position and vibration
Cable construction	Armored standard coaxial lead
Signal path	Matched probe, cable arrangement and Proximitor

The 1.0 m integral lead is combined with a compatible extension cable to establish the selected system electrical length. The probe cable length is not the total system length, and a mechanically matching extension does not establish electrical compatibility.

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02 Technical operating envelope

Sensing principle	Non-contact eddy current
Tip diameter	8 mm
Mounting thread	M10 x 1
Unthreaded section	80 mm
Case length	150 mm
Integral lead length	1.0 m

Lead construction	Armored standard coaxial cable
Connector	Miniature coaxial ClickLoc
Nominal system sensitivity	7.87 V/mm (200 mV/mil)
System linear range	2 mm (80 mils)
Standard calibration target	AISI 4140 steel

Probe configuration follows the metric ordering table; stated system performance requires a matched transducer chain and the specified target conditions.

Can a longer armored assembly replace 330104-08-15-10-02-00 without changing anything else?

Only after comparing mechanical geometry and calibrated electrical length with the complete system. Armor alone does not establish interchangeability. The conditioner and extension arrangement must remain compatible with the replacement.

Why can moisture at the 330104-08-15-10-02-00 connector cause intermittent measurements?

The coaxial interface relies on an intact electrical connection and insulation. Contamination can alter that path even when the connector appears mechanically engaged. Inspect, dry or replace components using the approved maintenance procedure and retest.

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03 System integration and applications

Fluid-film bearing monitoring

Measure shaft motion with a compatible proximity channel.

Static position measurement

Observe conductive target position within the matched-system range.

Reference-pulse sensing

Support a properly configured Keyphasor or speed-reference arrangement.

Probe replacement service

Match mounting geometry and electrical length to the installed chain.

System and supply context

330104-08-15-10-02-00 belongs to the 3300 XL 8 mm system installation described by the technical reference. Connected equipment and accessories must be included explicitly in the configured assembly.

Application boundary

The following uses describe supported engineering roles; they do not establish interchangeability with another model or remove application-specific validation.

Why should 330104-08-15-10-02-00 gap be checked across the expected shaft position range?

The operating position must remain within the useful linear range during normal movement. A centered reading at rest can become unsuitable after axial or radial displacement. Validate the application envelope rather than one static point.

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04 Engineering selection decisions

How can insufficient thread engagement affect an installation using 330104-08-15-10-02-00?

A mount can accept the nominal thread while failing to retain the probe securely at the required position. Compare the unthreaded section and usable case geometry with the bracket. Recheck the signal after mechanical locking.

What should be checked if 330104-08-15-10-02-00 appears noisier after a cabinet modification?

Compare shield and ground arrangements, cable routing and the proximity of switching circuits with the previous installation. Inspect connector integrity, then evaluate the signal with the target fixed before blaming machine vibration.

How should 330104-08-15-10-02-00 response be compared with a second vibration channel?

Check target location, sensor orientation, conditioning and monitor scaling before interpreting differences. Two channels at different positions need not produce identical signals, even when both are correctly calibrated.

Why must alarm testing follow electrical verification of 330104-08-15-10-02-00?

A correct sensor response does not establish the receiving monitor logic or relay path. Once the measurement is proven, verify the configured alarm response under a controlled test and restore the normal protection state.

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05 Configuration boundary and references

Lifecycle and support

The current manufacturing and manufacturer-support stage for this exact model is not confirmed.

Replacement assessment

Compare the complete 330104-08-15-10-02-00 identity, installed connections and configuration before selecting a replacement. The conditioner output represents both static gap and dynamic target motion. Target material, mounting geometry and receiver configuration must remain within the intended measurement design. Armor protects the routed lead but does not replace proper support or connector protection.

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 330130-045-03-05
- Bently Nevada 330130-045-01-00
- Bently Nevada 330130-075-00-CN

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.

Product enquiries