Bently Nevada 330704-000-050-10-02-05

01 Function and selected configuration

Product function

Bently Nevada 330704-000-050-10-02-05 places an 11 mm sensing tip at a metric mounting point while using an armored lead for the machine-side cable route.

Selected configuration

The 11 mm sensing tip supports the larger linear range of the XL 11 mm system. A matched probe, cable and Proximitor convert the distance to a conductive target into a proportional voltage for position or vibration measurement.

Functional path

Conductive target	Proximity probe	Matched cable	Proximitor output

Mounting	M14 x 1.5; 50 mm case; 0 mm unthreaded
Lead configuration	1.0 m; armored standard cable
Matched-system scale	3.94 V/mm

The 50 mm metric case has no unthreaded section, and the 330704 construction protects the lead with armor. The miniature ClickLoc connector couples to the corresponding extension cable without changing the selected 1.0 m probe length.

330704-000-050-10-02-05

02 Technical operating envelope

Tip diameter	11 mm
Mounting thread	M14 x 1.5
Unthreaded section	0 mm
Case length	50 mm
Probe length	1.0 m

Lead protection	Armor
Connector	Miniature coaxial ClickLoc, standard cable
System linear range	4 mm
System scale factor	3.94 V/mm
Recommended gap	2.5 mm

System values require the matching transducer components and specified target. The selected 1.0 m probe length must be treated as part of the calibrated electrical chain.

Signal interpretation

The 4 mm linear range and 3.94 V/mm scale factor belong to the complete matched system; the probe alone does not establish these ratings.

Interface boundary

The reference gap is 2.5 mm. Confirm target material, available travel and correct total electrical length before using the nominal calibration.

Which cable completes a 5 m system with 330704-000-050-10-02-05?

The 1.0 m probe requires a compatible 4.0 m XL 11 mm extension cable for a 5.0 m calibrated chain.

What is the matched-system linear range for 330704-000-050-10-02-05?

The XL 11 mm system provides a 4 mm linear range under the stated calibration conditions.

330704-000-050-10-02-05

03 System integration and applications

Axial position

Use the matched 4 mm-range system where the required target travel fits its calibrated range.

Radial vibration

Measure shaft movement through a correctly gapped XL 11 mm chain.

Protected lead routing

Armor supports the machine-side installation where cable protection is required.

Metric probe replacement

Retain the 50 mm case and M14 x 1.5 interface at the existing mount.

System and supply context

The probe works with the corresponding extension cable and Proximitor; the supplied item does not include the complete measurement channel.

Application boundary

Apply the M14 x 1.5 installation to its intended target and keep the selected 1.0 m probe length in the electrical-length calculation.

Is the lead of 330704-000-050-10-02-05 armored?

Yes. The 330704 construction includes armor around the standard probe cable.

330704-000-050-10-02-05

04 Engineering selection decisions

What mounting geometry does 330704-000-050-10-02-05 use?

It has an M14 x 1.5 threaded case, 50 mm overall case length and no unthreaded section.

Can 330704-000-050-10-02-05 use an 8 mm Proximitor calibration?

Use the matched XL 11 mm system. Its nominal 3.94 V/mm scale differs from the 7.87 V/mm scale of an XL 8 mm system.

Does 330704-000-050-10-02-05 have a FluidLoc lead?

No. Connector option 02 selects the miniature ClickLoc connection with standard cable.

What distinguishes the output check for 330704-000-050-10-02-05 from an XL 8 mm probe?

Use the 3.94 V/mm nominal XL 11 mm scale and its applicable range, rather than testing against the XL 8 mm sensitivity.

Target calibration	Assess target material and clearance before applying nominal sensitivity.
Gap setting	Establish the gap using the complete energized measurement chain.

330704-000-050-10-02-05

05 Configuration boundary and references

Lifecycle and support

The current production and factory-support status of 330704-000-050-10-02-05 is unconfirmed.

Replacement assessment

Retain the matched transducer family, total electrical length and target calibration. Recheck the channel response after replacing a component.

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; it does not replace manufacturer instructions.

Technical basis

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

Related product navigation

- Bently Nevada 330103-00-05-50-12-00
- Bently Nevada 330103-00-04-05-02-05

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

Product enquiries