Bently Nevada 330105-02-12-15-02-05

01 Function and selected configuration

Product function

Bently Nevada 330105-02-12-15-02-05 supports rear-access probe installation through a reverse-mount sleeve while retaining the XL 8 mm measurement characteristics.

Selected configuration

The reverse-mount construction allows the probe to be installed through its appropriate sleeve arrangement. The fixed 02-12 designation must not be interpreted using the variable unthreaded and case-length fields of a conventional probe.

Functional path

Conductive target	Proximity probe	Matched cable	Proximitor output

Mounting	3/8-24 UNF; fixed reverse-mount geometry
Lead configuration	1.5 m; standard cable
Matched-system scale	7.87 V/mm

The 1.5 m probe length combines with a 3.5 m compatible extension for a 5 m system. The miniature ClickLoc connector couples the passive probe to the electrical chain without adding a separately powered field device.

330105-02-12-15-02-05

02 Technical operating envelope

Probe construction	Reverse mount
Mounting thread	3/8-24 UNF
Tip diameter	8 mm
Probe length	1.5 m
Connector	Miniature ClickLoc coaxial

Probe resistance	7.73 ohm ±0.50 ohm
System linear range	2 mm
System scale factor	7.87 V/mm
Reference gap	1.27 mm
Calibration target	AISI 4140 steel

System values require the matching transducer components and specified target. The selected 1.5 m probe length must be treated as part of the calibrated electrical chain.

Signal interpretation

The 2 mm linear range and 7.87 V/mm scale factor belong to the complete matched system; the probe alone does not establish these ratings.

Interface boundary

The reference gap is 1.27 mm (approximately -9 V for radial vibration). Confirm target material, available travel and correct total electrical length before using the nominal calibration.

What nominal resistance belongs to 330105-02-12-15-02-05?

For a 1.5 m probe, nominal center-to-outer-conductor resistance is 7.73 ohm ±0.50 ohm.

Does 330105-02-12-15-02-05 require a separate positive DC supply at the tip?

No. The passive probe connects through the matched cable to its Proximitor, which provides the system electronics.

330105-02-12-15-02-05

03 System integration and applications

Rear-access installation

Use the reverse-mount sleeve for probe access from the intended side.

Sleeve-mounted shaft sensing

Position the tip through a compatible mechanical assembly.

Five-metre calibration

Match a 1.5 m probe and 3.5 m extension to the 5 m sensor.

Maintenance replacement

Retain sleeve position and verify the restored gap.

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 3/8-24 UNF installation to its intended target and keep the selected 1.5 m probe length in the electrical-length calculation.

Should the 02-12 fields of 330105-02-12-15-02-05 be decoded as ordinary case options?

No. They are part of the fixed reverse-mount designation; use the reverse-mount drawing and sleeve arrangement.

330105-02-12-15-02-05

04 Engineering selection decisions

Is 330105-02-12-15-02-05 a conventional front-mount probe?

No. The 330105-02-12 construction is the XL 8 mm reverse-mount probe with 3/8-24 UNF threads.

How is a 5 m chain assembled around 330105-02-12-15-02-05?

Combine its 1.5 m probe length with a compatible 3.5 m extension and a 5 m Proximitor.

Why must the sleeve be checked when fitting 330105-02-12-15-02-05?

Reverse mounting depends on the sleeve and rear-access arrangement; a matching thread alone does not prove correct probe position or access.

What system calibration applies after installing 330105-02-12-15-02-05?

Use the matched XL 8 mm system scale of 7.87 V/mm and its 2 mm linear range under the specified target and temperature conditions.

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

330105-02-12-15-02-05

05 Configuration boundary and references

Lifecycle and support

The current production and factory-support status of 330105-02-12-15-02-05 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 8 mm Proximity Transducer System, 141194 Rev. AN.

Related product navigation

- Bently Nevada 2300/25
- Bently Nevada 2300/25-00

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

Product enquiries