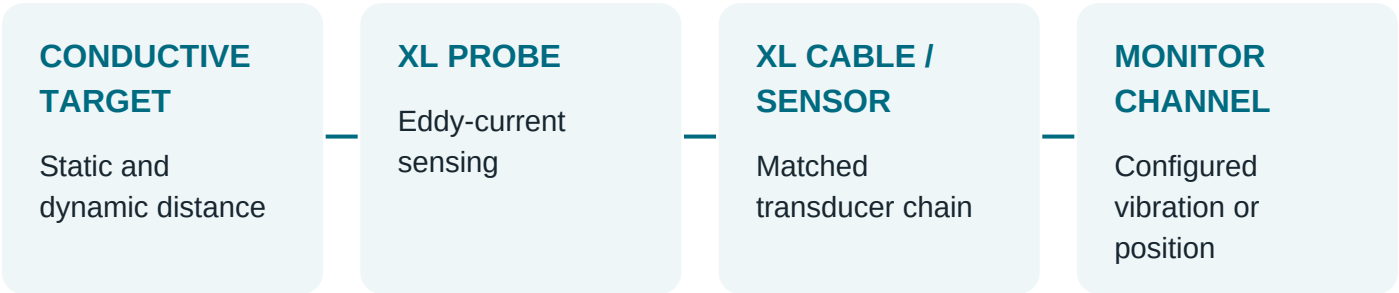


Bently Nevada 330104-03-06-05-02-00

01 / Forward-mount sensing identity

Bently Nevada 330104-03-06-05-02-00 is the armored metric sensing element in a matched 3300 XL proximity transducer chain. Its forward-mount construction uses a standard lead and miniature coaxial ClickLoc connection.

Mounting style	Forward mount, metric thread
Cable protection	Armored construction
Mating interface	Gold-plated ClickLoc connection
Lead construction	Standard cable; no FluidLoc option
Protector selection	Separate connector protection required



SYSTEM, NOT STANDALONE OUTPUT

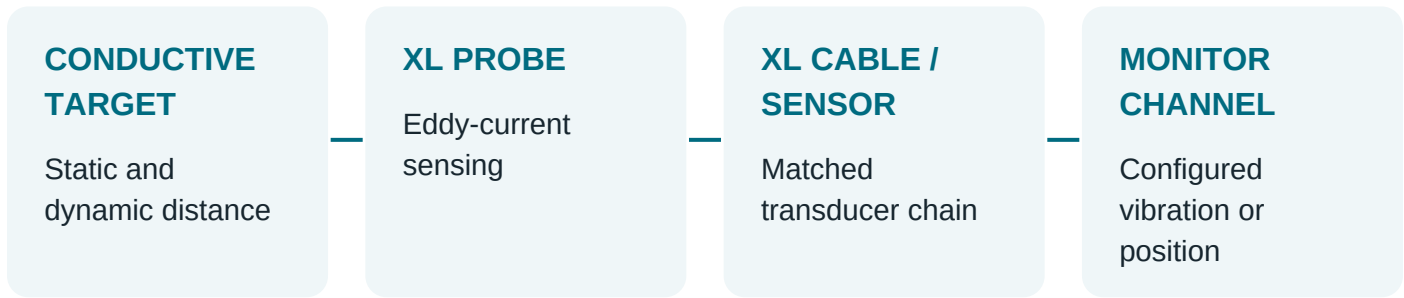
The probe is one part of the 3300 XL sensing chain. The Proximity Sensor conditions the probe signal into a voltage proportional to target distance.

BUILD IDENTITY

Retain the armored metric build and standard lead. The 00 option is not a hazardous-area approval; the -02 joint needs separate environmental protection.

Bently Nevada 330104-03-06-05-02-00

02 / Signal chain and connection decisions



Probe to cable	Use the gold-plated XL ClickLoc interface. Two XL click-type connectors are finger-tightened.
Cable to sensor	Match probe-plus-extension length to the selected Proximitor Sensor system.
Sensor to monitor	The conditioned voltage carries static position and dynamic vibration information.

CONNECTOR PROTECTION

The -02 build has no factory-installed protector. A separate protector improves environmental protection. Silicone tape supplied with an extension cable is not recommended where the connection is exposed to turbine oil.

TARGET-MATERIAL BASIS

The normal factory calibration uses AISI 4140 steel. A different conductive target needs the corresponding calibration basis; the all-XL accuracy and interchangeability specification does not apply unchanged to other target materials.

Bently Nevada 330104-03-06-05-02-00

03 / Electrical checks and installed applications

Electrical check	7.45 ± 0.50 ohm probe DC resistance
Probe temperature	-52°C to +177°C; pressure-seal caution below -34°C
Case material	AISI 303 or 304 stainless steel
Tip material	PPS

CONTINUITY INTERPRETATION

Measure center conductor to outer conductor at the probe connection. The 7.45 ± 0.50 ohm reference belongs to this short probe lead; an added extension has separate conductor-resistance references.

TEMPERATURE IS NOT A PRESSURE-SEAL GUARANTEE

The standard probe range reaches -52°C to +177°C. Below -34°C the pressure seal may fail prematurely; thermal range and fluid containment must be assessed separately.

Application decisions

Fluid-film bearing monitoring / Supplies the sensing element for radial shaft-displacement measurement in an engineered 3300 XL system.

Armored cable routing / Supports a documented cable route where the armored probe construction is required.

Axial gap measurement / Measures separation from the conductive target through the matched Proximity signal chain.

Metric forward-mount renewal / Preserves the specified exposed section and case identity in the existing mounting position.

Bently Nevada 330104-03-06-05-02-00

04 / Engineering FAQ and service boundaries

What distinguishes this short lead in a continuity check?

Center-to-outer-conductor resistance is 7.45 ± 0.50 ohm. This probe-lead reference must not be replaced by the value for a longer lead or an extension cable.

Does the armored build also provide FluidLoc containment?

No. Armor protects the cable externally; the -02 selection specifies standard cable. Internal fluid-migration containment is a separate FluidLoc cable construction.

Can the all-XL calibration be reused unchanged with a different target material?

The normal factory calibration is based on AISI 4140 steel. Another conductive material needs the corresponding calibration basis rather than an unchanged all-XL accuracy assumption.

How is the exposed ClickLoc joint protected on this configuration?

The -02 connector has no factory-installed protector. Separate environmental protection can be fitted; armor does not seal the connector joint.

Replacement acceptance

- 01 / Keep the exact metric mounting geometry and armored construction.
- 02 / Put the machine in its approved maintenance state before adjustment.
- 03 / Inspect the cable route without treating armor as an internal fluid barrier.
- 04 / Match combined electrical length to the selected Proximito Sensor.
- 05 / Keep the conductive target and its calibration basis unchanged.
- 06 / Finger-tighten two XL ClickLoc interfaces until the connection locks.
- 07 / Fit suitable connector environmental protection separately.
- 08 / Verify final static gap and the configured monitoring response.

RELATED SENSING PORTFOLIO

Related catalog navigation; not interchangeable replacements.

[View Bently Nevada 330104-01-05-50-02-00 page](#)

[View Bently Nevada 330104-00-04-50-02-00 page](#)

[View Bently Nevada 330101-00-12-15-02-05 page](#)

Bently Nevada 330104-03-06-05-02-00

05 / Sources, related products and contact

MANUFACTURER SOURCE LEDGER

3300 XL 8 mm Proximity Transducer System

Datasheet 141194 Rev. AN

Construction and joint protection	Description and connector-protection notes, pages 1–2
Lead electrical reference	Probe DC-resistance table, page 4
Material and thermal limits	Mechanical and environmental specifications, pages 5–6
Exact order selection	Armored metric probe ordering table, page 14

RELATED SENSING PORTFOLIO

Related catalog navigation; not interchangeable replacements.

[View Bently Nevada 330101-00-08-10-01-00 page](#)

[View Bently Nevada 330101-00-09-20-02-05 page](#)

[View Bently Nevada 330101-00-10-10-01-05 page](#)

[View Bently Nevada 330101-00-10-15-02-05 page](#)

[View Bently Nevada 330101-00-12-10-11-00 page](#)

[View Bently Nevada 330101-00-13-15-02-CN page](#)

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330104-03-06-05-02-00