

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

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.

MEASUREMENT PURPOSE

Non-contact position and vibration monitoring on conductive targets in fluid-film bearing machinery.

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

CONDUCTIVE TARGET

Static and dynamic distance

XL PROBE

Eddy-current sensing

XL CABLE / SENSOR

Matched transducer chain

MONITOR CHANNEL

Configured vibration or position

The exact ordered construction is retained without treating related portfolio items as substitute probes. Use the matching monitoring configuration and target-material calibration.

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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 Proximitior Sensor system.
Sensor to monitor	The conditioned voltage carries static position and dynamic vibration information.

PROTECT THE JOIN

Provide environmental protection at the probe/cable connection; -02 is not a factory-protector build.

KEEP THE CALIBRATION BASIS

Factory calibration uses AISI 4140 steel. A different target requires the corresponding material calibration.

LIMIT MIXED-COMPONENT CLAIMS

XL and non-XL mixing is limited by the non-XL specification, despite the stated interchangeability.

This short-lead build belongs in the corresponding matched extension arrangement. The complete electrical length must agree with the Proximitior Sensor; the probe does not select the system length by itself.

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Electrical checks and installed applications

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 Proximitor signal chain.	Metric forward-mount renewal Preserves the specified exposed section and case identity in the existing mounting position.
Electrical check	7.45 ± 0.50 ohm probe DC resistance
Probe temperature	-52°C to +177°C; pressure-seal caution below -34°C

A resistance result supports continuity assessment, not installed-system calibration. Pressure sealing, connector protection and conductive-target response remain distinct checks.

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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.

01 / Keep the exact metric mounting geometry and armored construction.

03 / Inspect the cable route without treating armor as an internal fluid barrier.

05 / Keep the conductive target and its calibration basis unchanged.

07 / Fit suitable connector environmental protection separately.

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.

02 / Put the machine in its approved maintenance state before adjustment.

04 / Match combined electrical length to the selected Proximity Sensor.

06 / Finger-tighten two XL ClickLoc interfaces until the connection locks.

08 / Verify final static gap and the configured monitoring response.

RELATED SENSING PORTFOLIO

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Sources, related products and contact

MANUFACTURER SOURCE LEDGER

3300 XL 8 mm Proximity Transducer System

Datasheet 141194 Rev. AN

DOCUMENT SCOPE

Technical Reference is the model dossier. Manufacturer Datasheet Excerpt preserves selected original 141194 pages unchanged. Complete Product Information combines functional, integration and service decisions.

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RELATED SENSING PORTFOLIO

Related catalog navigation; not interchangeable replacements.

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Armor review	External protection, not FluidLoc containment
Joint review	Separate protector for the -02 connection
Target review	Preserve the conductive-material calibration basis