

Job Scope and Isolation

Installed item

Bently Nevada 330173-00-03-10-02-00 is the unarmored metric probe in a 3300 5 mm transducer chain. Verify the complete part marking against the approved maintenance record.

Pre-Work Evidence

CHECK	REQUIRED RECORD
Identity	Confirm 330173-00-03-10-02-00 and the installed M8 x 1 probe position.
Companion items	Identify the correct 3300 XL extension cable, Proximitor Sensor and monitoring channel.
Target	Record conductive target material and approved calibration basis.
Work control	Isolate the channel and machine interfaces under the plant-approved procedure.
Replacement baseline	Capture the prior gap, output and machine-state records before disturbance.

Hold point

Do not disturb or energize the installation until the probe identity, companion chain and authorization for the work are documented.

Related Products - Verify Before Substitution

Bently Nevada 330104-00-05-05-02-05	View product page
Bently Nevada 330104-08-14-10-02-05	View product page
Bently Nevada 330851-02-000-070-90-00-05	View product page

Required System Position

ELEMENT	PRE-WORK CONFIRMATION
Probe	Unarmored 330173 metric construction and standard ClickLoc connection.
Extension cable	Compatible 3300 XL cable identified by the installed-system record.
Proximitor Sensor	Target calibration and monitoring channel identified before replacement.

Connection and Mounting Sequence

Controlled Field Sequence

STEP	ACTION / ACCEPTANCE
1 - Inspect	Check the PPS tip, metric case, standard lead and ClickLoc contact for damage.
2 - Position	Use the approved M8 x 1 mounting arrangement and align the tip to the recorded target.
3 - Route	Protect the unarmored FEP-insulated lead from abrasion, pinch points and strain.
4 - Mate	Join the gold-plated ClickLoc connectors finger-tight until the connection clicks.
5 - Protect	Apply the specified environmental connector protection for the installation.
6 - Complete chain	Confirm the extension cable and Proximity Sensor match the approved system.

Manufacturer connection note

ClickLoc connectors require no special installation or removal tools. The source recommends connector protection for increased environmental protection.

Before Energization

CONTROL	REQUIRED RESULT
Identity	Complete part number matches the approved replacement record.
Channel	Target, power, wiring and monitoring assignment are documented.
Condition	Connector, cable and mounting show no unresolved damage.

Commissioning and Acceptance

Staged Verification

STAGE	ACTION / EXPECTED EVIDENCE
Power	Check the Proximitior Sensor supply against the approved system record and source limits.
Static gap	Set and record the approved target gap with the machine in a controlled state.
Static output	Check that sensor output changes with target distance as expected.
Dynamic response	Verify the assigned monitor function under an authorized machine test.
Release	Record the final reading, alarm status, configuration and approving technician.

Measurement boundary

The manufacturer's 2 mm linear range and nominal scale factor apply to the complete matched transducer system under specified conditions, not the probe in isolation.

If Acceptance Fails

OBSERVATION	NEXT CONTROLLED CHECK
No output	Check supply, connector seating, cable continuity and monitor assignment.
Unexpected scale	Review the target material and calibration basis; verify the matched chain.
Unstable reading	Inspect cable routing, connector protection, mounting and target condition.

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Handover and Source Record

Release Checklist

RELEASE ITEM	REQUIRED EVIDENCE
Exact item	330173-00-03-10-02-00 is recorded, including the connector and approval options.
Mechanical	Probe is mounted and aligned to the approved machine target.
Electrical	Complete probe/cable/Proximitors chain and monitor input are confirmed.
Performance	Static gap and authorized functional response are within approved plant criteria.
Documentation	As-left records and maintenance approval are filed.

Source for this field guide

Bently Nevada 3300 5 mm Transducer System Datasheet, 172036 Rev. T. Use the current manufacturer procedure and site safety program for the actual installation; this Apter Power guide does not replace them.

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