

Job Scope and Safe-Work Boundary

Bently Nevada 330104-08-14-10-02-05

This field guide covers the documented 330104 armored metric probe as part of a matched 3300 XL 8 mm proximity transducer system. Use the applicable approved plant work process and manufacturer drawings for the installation.

Before Work Begins

RECORD TO CONFIRM	WHY IT MATTERS
Complete probe identity	The 330104 armored metric construction, standard ClickLoc cable selection and final approval option must match the installed position.
Companion components	The extension cable and Proximity sensor determine whether the complete electrical configuration is correct.
Target material	Standard system calibration is to AISI 4140 steel; other target materials need approved calibration.
Monitor state	The monitoring channel must be placed in the site's controlled maintenance condition before disconnection or replacement.
Installation drawing	Use the applicable Bently Nevada hazardous-area or system drawing for the installed approval scheme.

Release boundary

Do not return the point to service merely because the probe is mechanically installed. Confirm the ClickLoc connection, system pairing, static gap and observed channel response in the approved maintenance record.

Manufacturer source record

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN. Applicable descriptive, ordering and technical sections: pages 1-2, 4-9 and 13-14.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



330104-08-14-10-02-05

Pre-Installation Readiness

Documented Checks

CHECK	REQUIRED EVIDENCE
Probe family	330104 is the armored M10 x 1 metric member of the 3300 XL 8 mm probe family.
Order-code suffix	Option 02 is the miniature coaxial ClickLoc connector with standard cable; final 05 is the approval selection.
Mating cable	The installed extension cable matches the intended 3300 XL system configuration.
Conditioning sensor	The Proximitor sensor matches the installed system and channel wiring.
Connector protection	Use a connector protector where environmental exposure could affect the joint.
Target	AISI 4140 standard calibration basis, unless the approved records specify another target calibration.
Temperature	Standard probe use remains within the published -52 to +177 degrees C operating limit.
Approval drawings	The installed circuit follows the drawing required by its selected protection method.

Stop and resolve

If a connector, probe type, target calibration or system pairing differs from the controlled record, resolve the discrepancy before mounting or energizing the measurement chain.

Related Products on Apter Power

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Installation and Connection Sequence

Sequence with Acceptance Criteria

STEP	ACTION	ACCEPTANCE
01	Verify the complete 330104-08-14-10-02-05 marking.	The armored metric probe and connector option match the approved record.
02	Inspect the probe case, tip, armored lead and cable exit.	No damage or condition that compromises the sensing point.
03	Install the probe in the approved M10 x 1 mounting interface.	Thread engagement and probe position agree with the manufacturer drawing.
04	Route the lead without exceeding the manufacturer's cable handling limits.	Cable and armor are not strained or exposed to damaging conditions.
05	Join the miniature coaxial ClickLoc connectors by hand.	The positive locking click is felt and the joint remains secure.
06	Apply the documented connector protection.	The joint is protected for the installed environment.
07	Pair the extension cable and Proximity sensor.	The complete chain matches the system configuration and channel record.
08	Set the probe gap and verify the connected channel.	Static output and subsequent machine response meet approved criteria.

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Commissioning and Fault Isolation

Acceptance Workflow

CHECK	EXPECTED RESULT	IF NOT
Identity	Exact probe, connector and approval option match the record.	Hold release and reconcile the installed part.
Connection	ClickLoc joint is fully mated, protected and undamaged.	Inspect connector and cable interface.
Supply	Proximitor sensor supply is within its installed-circuit specification.	Check the power arrangement and approved drawing.
Static output	Output follows the calibrated target gap with no unexplained fault.	Recheck gap, target material and complete system pairing.
Dynamic response	Shaft response is credible against the controlled machine baseline.	Check mounting, channel scaling and companion hardware.
Mixed components	Any XL/non-XL mixture is evaluated to the non-XL performance limit.	Reassess the complete chain before release.

Model-Specific Diagnostic Questions

QUESTION	FIELD ANSWER
330104-08-14-10-02-05 connector does not lock?	Confirm both halves are the documented miniature coaxial ClickLoc type and inspect for damage.
330104-08-14-10-02-05 gap output is unexpected?	Check AISI 4140 calibration basis, selected system components and the measured static gap.
330104-08-14-10-02-05 replacement differs?	Check whether a non-XL component has changed the applicable system performance limits.

Controlled handover

Record the exact installed marking, companion cable and Proximitor sensor identities, connector condition, calibration target, static gap and controlled channel test result before returning the monitoring point to service.