Plan the installation scope

Bently Nevada / 330701-00-20-10-02-00

Bently Nevada 330701-00-20-10-02-00

Bently Nevada 330701-00-20-10-02-00 is an unarmored 3300 XL 11 mm proximity probe for displacement and vibration measurement with a matched 11 mm transducer system.

Apter Power engineering guide. Apply the manufacturer procedure and the approved site design for the installed equipment.

Configuration and supply boundary

Confirm the unarmored 11 mm probe and its 00 approval selection. Extension cable, 11 mm Proximitor Sensor and monitor are separate unless listed in the quotation.

Identification checkpoint	Required value
Product family	3300 XL 11 mm
Probe configuration	330701; standard mount without armor
Case thread	1/2-20 UNF
Unthreaded length option	00; 0.0 in

Conductive target	—	330701 / 11 mm extension cable	—	3300 XL 11 mm Proximitor

Operating context

A complete 11 mm transducer chain uses the probe, matching extension cable and 11 mm Proximitor Sensor. Select the extension cable so the combined length matches the 5 m or 9 m system.

Why select the 11 mm family used by 330701-00-20-10-02-00?

The matched 3300 XL 11 mm system provides a 4.0 mm linear range for applications requiring more displacement range than the 8 mm system. Selection still depends on target geometry and required measurement range.

Which extension cable suits the 1.0 m lead of 330701-00-20-10-02-00?

Use the matching 3300 XL 11 mm extension-cable family and choose its length so probe plus extension equals the selected 5 m or 9 m Proximitor system length.

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Prepare power and interfaces

Bently Nevada / 330701-00-20-10-02-00

Technical source: Bently Nevada 3300 XL 11 mm Proximity Transducer System, 146256 Rev. T - technical information excerpt. Performance values describe a matched transducer system under the specified calibration conditions.

Technical boundary	Applicable value
Overall case length option	20; 2.0 in
Total probe length option	10; 1.0 m
Connector and cable option	02; miniature coaxial ClickLoc, standard cable
Agency approval option	00; not required
Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 304 stainless steel
Probe cable	75 ohm triaxial; FEP insulation
Connector material	Gold-plated brass

System matching

Use only the intended 11 mm probe/cable/Proximitor combination and confirm total system length.

Approval boundary

Suffix 00 selects no agency approval requirement. Hazardous-area suitability cannot be inferred from family-level certification information.

System relationship

The nominal 3.94 V/mm output and 4.0 mm linear range describe the complete system with the stated AISI 4140 target and calibration conditions. They are not a direct output specification for the passive probe.

Additional interface criterion	Documented boundary
Nominal probe DC resistance	5.9 +/- 0.5 ohm; 1.0 m, center to outer conductor
Probe operating/storage temperature	-52 to +177 deg C; pressure-seal caution below -34 deg C
Recommended case torque	15.2 N m; 1/2-20 case
Maximum case torque	45.2 N m; 1/2-20 case
Maximum thread engagement	0.750 in for 1/2-20 thread

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Install with controlled hold points

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Complete the identity and safe-state checks before disturbing the installed circuit. The following hold points follow the product-specific installation boundary.

01 / Use the 11 mm chain

Match the probe with the 11 mm extension cable and Proximitor Sensor; verify the combined cable length.

02 / Confirm approval selection

The supplied code ends in 00. Confirm the installation permits this non-approved selection.

03 / Check target dimensions

Verify the target surface and adjacent-probe spacing against the 11 mm system requirements.

04 / Set the operating gap

Establish the recommended 2.5 mm reference gap only with the correct target and calibrated system.

05 / Protect cable and threads

Respect the case torque, engagement and minimum bend radius. Keep the unarmored lead clear of mechanical damage.

06 / Plan full-system conversions

For a 7200 conversion, update all sensing-chain components and the monitor configuration together.

Conductive target	330701 / 11 mm extension cable	3300 XL 11 mm Proximitor

What continuity value is expected for 330701-00-20-10-02-00?

The 1.0 m probe has nominal center-to-outer-conductor resistance of 5.9 +/- 0.5 ohm. Disconnect it from the energized measurement chain before applying the manufacturer test procedure.

How is the case of 330701-00-20-10-02-00 secured?

For its 1/2-20 case, recommended torque is 15.2 N m, maximum rated torque is 45.2 N m and maximum thread engagement is 0.750 in. Check internal thread fit and use the provided locknut appropriately.

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Commission and verify operation

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Stage	Controlled action	Acceptance focus
Identify	Compare full marking, mounting and selected components.	Identity and intended system agree.
Prepare	Match the probe with the 11 mm extension cable and Proximitor Sensor; verify the combined cable length.	Correct components and safe machine state.
Install	The supplied code ends in 00. Confirm the installation permits this non-approved selection.	Mounting and connection checks accepted.
Adjust	Verify the target surface and adjacent-probe spacing against the 11 mm system requirements.	Required gap and signal verified.
Release	Record stable channel indications and the final installed configuration.	Site acceptance completed before returning to service.

Application configuration

Replacement of a 7200-series 11 mm or 14 mm system requires replacement of all transducer components and appropriate monitor configuration. A single probe substitution does not complete that conversion.

Does 330701-00-20-10-02-00 carry the multiple-approval option?

No. The final 00 code means agency approval is not required. Do not treat approvals shown for other order variants as certification of this probe.

What target and gap are used with 330701-00-20-10-02-00?

The system specification uses an AISI 4140 steel target and recommends a 2.5 mm gap. Confirm actual target material, geometry and required travel before applying those performance values.

Acceptance decision

Compare the controlled observations with the installed configuration and the manufacturer procedure. Investigate a disagreement before returning the function to service; retain the measured state and the corrective action in the handover record.

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Diagnose and hand over

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Can 330701-00-20-10-02-00 alone replace a 7200 11 mm system?

No. The manufacturer requires all transducer components to be changed to 3300 XL 11 mm components and the monitoring system to be updated for that conversion.

What case configuration does 330701-00-20-10-02-00 specify?

The 330701 base is unarmored with a 1/2-20 UNF case. Options 00 and 20 select no unthreaded length and a 2.0 in overall case.

Lifecycle and service planning

A current manufacturing or support phase for this complete order number has not been confirmed from a model-specific manufacturer lifecycle notice.

Support boundary

Request current written support and replacement guidance from Bently Nevada using the complete marking and installed transducer configuration. Apter Power availability is confirmed separately in the quotation.

Technical references

3300 XL 11 mm Proximity Transducer System Datasheet, 146256 Rev. T.

Related Bently Nevada portfolio references

Independent product references; these links do not establish compatibility, substitution or endorsement.

Complete product reference	Navigation
Bently Nevada 330702-00-30-10-01-05	View Bently Nevada 330702-00-30-10-01-05
Bently Nevada 330730-080-00-00	View Bently Nevada 330730-080-00-00
Bently Nevada 330780-90-CN	View Bently Nevada 330780-90-CN

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