330102-00-30-10-01-05

01 / Job scope and measuring-chain boundary

330102 probe — Extension cable — Matched Proximitor — Monitor channel

Bently Nevada 330102-00-30-10-01-05 is an armored 3300 XL 8 mm proximity probe for noncontact shaft measurement, with a 3/8-24 UNF case and 1.0 m lead.

Work boundary

This guide supports preparation for replacement or installation of the exact probe configuration. Apply the site permit, machine isolation and monitoring-channel procedure before disturbing the measurement chain.

Required chain

Match the 1 m probe to a 1 m Proximitor system, or use a 4 m extension for a 5 m system or an 8 m extension for a 9 m system.

Record before disconnection

Identify the installed probe, cable route, Proximitor marking and monitoring channel. Preserve photographs of the connector, mounting and identification so changes can be checked before return to service.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apter Power preparation guide - use the applicable manufacturer instructions.

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02 / Pre-installation readiness

Identity	330102-00-30-10-01-05; compare the complete option sequence and actual unit marking.
Paired components	Match the 1 m probe to a 1 m Proximitor system, or use a 4 m extension for a 5 m system or an 8 m extension for a 9 m system.
Target and gap	Check target material and the usable system span; do not apply the sensor voltage directly to the passive probe.
Connector and protection	ClickLoc with connector protector, standard cable. Inspect the protector and the mating contact before assembly.

Thread and cable selection

The selected case has a 3/8-24 UNF thread, 0.0 in unthreaded length and 3.0 in overall case length. Compare these interfaces with the installed bracket or housing; nominal tip diameter does not establish mechanical interchangeability.

Materials and handling

The PPS tip and stainless-steel case must be free of visible damage. Armor protects the lead mechanically but does not establish pressure sealing or authorize immersion of a connector.

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03 / Installation and replacement sequence

01 / Match the complete chain	Match the 1 m probe to a 1 m Proximitor system, or use a 4 m extension for a 5 m system or an 8 m extension for a 9 m system.
02 / Check the mounting interface	Confirm 3/8-24 UNF thread engagement, the 0.0 in unthreaded section and 3.0 in case length. Do not force a metric and imperial thread combination.
03 / Set the operating gap	Use a target and gap appropriate to the 2.0 mm matched-system linear range. Verify the channel output with the actual target before release to service.
04 / Protect the cable and connector	Keep the cable bend radius at least 25.4 mm. Tighten ClickLoc connectors by hand, protect the joint and avoid applying cable tension through the connector.

Approval and environmental review

This order uses standard cable, not FluidLoc. Match the supplied approval marking to the area requirements and protect connections against the actual moisture and oil exposure.

Connection record

Identify every component connected to the Proximitor input. Retain the full probe code and agreed cable combination; do not rely on connector fit as proof of system matching.

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04 / Commissioning and acceptance

Identity check	Confirm the fitted item and paired components match the approved configuration. Resolve a different cable length or family before energizing the chain.
Static gap response	Verify that the output changes consistently with target position through the usable operating region. Assess the actual target material and mounting.
Channel scaling	Apply the matched-system sensitivity, range and monitor configuration. Do not transfer 11 mm scaling into an 8 mm channel or the reverse.
Signal stability	Check for an unstable gap indication or damaged lead. Inspect mounting rigidity, connector security and the chain configuration before interpreting machine vibration.

Acceptance evidence

Retain the configuration, gap setting, applicable check results and unresolved observations. Follow the site acceptance process before returning a protection or monitoring channel to operation.

Probe and channel checks

The nominal probe resistance is 7.59 +/-0.50 ohms. Check with the channel isolated and the applicable instrument procedure. A resistance check can help identify an open or damaged lead, but it does not replace gap-response and complete-channel verification.

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05 / Diagnostics, maintenance and references

Unstable reading	Inspect connector condition, cable damage and mounting movement before changing monitor settings.
Unexpected scaling	Check system family and total cable selection against the Proximitor configuration; verify the target and calibration conditions.
Replacement planning	Retain complete option identity. Confirm manufacturer support separately from seller stock and obtain guidance for any proposed conversion.

Technical basis

Bently Nevada 3300 XL 8 mm Proximity Transducer System, 141194 Rev. AN. This Apter Power guide is not a manufacturer installation manual.

Other Bently Nevada references

Bently Nevada 330878-50-00

Bently Nevada 330180-92-05

These are separate product listings for comparison, not approved substitutes or a statement that they are supplied with this probe.

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