330104-01-09-90-01-05

01 / Product role and selected configuration

330104 probe — Integral 9.0 m lead — Matched Proximitor — Monitor channel

A long integral probe lead reduces the number of intermediate cable joints in the measurement chain. Bently Nevada 330104-01-09-90-01-05 uses a 9 m cable arrangement matched directly to a 9 m Proximitor configuration; plan the cable route before replacing an installed channel.

Measuring-chain selection

Connect the integral 9.0 m probe directly to the matching 9.0 m 3300 XL Proximitor sensor configuration. Do not add an extension cable to this matched-length arrangement.

Product series	3300 XL 8 mm
Product type	Armored proximity probe
Sensing principle	Noncontact eddy current
Probe tip diameter	8 mm

Supply scope: Confirmed in quotation. The probe and any associated sensor or cable must be individually identified.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apter Power preparation guide - use the applicable manufacturer instructions.

330104-01-09-90-01-05

02 / Technical characteristics

Connector option 01	Miniature coaxial ClickLoc with connector protector
Cable option	Standard cable; not FluidLoc
Approval option 05	CSA / ATEX / IECEx option; verify supplied marking
Nominal probe DC resistance	9.87 +/-0.50 ohms
Tip material	Polyphenylene sulfide (PPS)
Case material	AISI 303 or 304 stainless steel

Cable impedance	75 ohms
Matched-system linear range	2.0 mm
Matched-system sensitivity	7.87 V/mm (200 mV/mil), +/-6.5%
Recommended radial gap	1.27 mm (approximately -9 V)
Minimum cable bend radius	25.4 mm
Connector tightening	Finger tight; 0.565 N m maximum

Sensitivity and linear range describe a matched system. Verify the applicable reference conditions and actual target before applying these ratings.

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03 / Integration and applications

Radial shaft vibration

Measure shaft displacement relative to the probe mounting on fluid-film-bearing machinery. Match the 3300 XL 8 mm chain, radial gap and monitor scaling to the actual target and installation.

Axial shaft position

Monitor axial position within the 2 mm matched-system linear range. Review target geometry, usable travel and the gap setting before commissioning.

Phase and speed reference

Use an appropriately configured channel for Keyphasor phase or rotational-speed measurement. Check the target feature, channel response and monitor configuration; probe type alone does not define the complete function.

Machine condition monitoring

Support turbine, compressor or other fluid-film-bearing machine monitoring through a correctly paired 8 mm chain. Interpret readings with bearing type, mounting rigidity and the monitored shaft surface.

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04 / Engineering decisions and precautions

Match the complete chain

Connect the integral 9.0 m probe directly to the matching 9.0 m 3300 XL Proximitor sensor configuration. Do not add an extension cable to this matched-length arrangement.

Check the mounting interface

Confirm M10 x 1 thread engagement, the 10 mm unthreaded section and 90 mm case length. Do not force a metric and imperial thread combination.

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.

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.

Review exposure and approvals

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.

Verify the completed channel

Check identity, electrical continuity, gap response and monitor scaling with an approved test procedure. Resolve unstable output, damaged cable or a mismatched component before returning the channel to service.

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330104-01-09-90-01-05

05 / Service review and related references

Offered-unit review

Request current photos of the complete 330104-01-09-90-01-05 marking, probe tip, threaded case, armored lead and ClickLoc connector. Compare the supplied approval marks and any revision or serial identification with the installed requirement before approving the offer.

Included items

Supply scope: Confirmed in quotation. Itemize the probe, any extension cable, Proximitor sensor, mounting hardware, connector protection and accompanying documents. A compatibility reference does not mean the associated components are supplied.

Technical basis

Bently Nevada 3300 XL 8 mm Proximity Transducer System, 141194 Rev. AN

Other Bently Nevada references

Bently Nevada 330105-02-12-10-02-05

Bently Nevada 330105-02-12-50-02-00

Separate references only; compatibility and included items require confirmation for the actual installation.

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