330702-00-30-10-01-05

01 / Product role and selected configuration

330702 probe — Extension cable — Matched Proximitor — Monitor channel

A larger measurement span can be useful when axial shaft movement is the limiting requirement. Bently Nevada 330702-00-30-10-01-05 forms the probe end of a matched 11 mm measuring chain; its 4 mm system range must be assessed with the selected extension cable and Proximitor sensor.

Measuring-chain selection

Use a matching 330780 Proximitor sensor and 330730 extension cable: 4 m extension for a 5 m system or 8 m extension for a 9 m system.

Product series	3300 XL 11 mm
Product type	Armored proximity probe
Sensing principle	Noncontact eddy current
Probe tip diameter	11 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.

330702-00-30-10-01-05

02 / Technical characteristics

Connector option 01	Miniature coaxial ClickLoc with connector protector
Cable option	Standard cable; not FluidLoc
Approval option 05	Multiple approvals; verify supplied marking
Nominal probe DC resistance	5.9 +/-0.5 ohms
Tip material	Polyphenylene sulfide (PPS)
Case material	AISI 304 stainless steel

Cable impedance	75 ohms
Matched-system linear range	4.0 mm
Matched-system sensitivity	3.94 V/mm (100 mV/mil), +/-10%
Recommended radial gap	2.5 mm
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 11 mm chain, radial gap and monitor scaling to the actual target and installation.

Axial shaft position

Use the 4 mm matched-system range for axial position or thrust measurement where the mounting and target geometry support the required travel.

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

Apply the 11 mm measurement chain to suitable compressor rod position or drop monitoring. Confirm target size, alignment and the actual machine arrangement before using the reading.

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04 / Engineering decisions and precautions

Match the complete chain

Use a matching 330780 Proximitor sensor and 330730 extension cable: 4 m extension for a 5 m system or 8 m extension for a 9 m system.

Check the mounting interface

Confirm 1/2-20 UNF thread engagement, the 0.0 in unthreaded section and 3.0 in case length. Do not force a metric and imperial thread combination.

Set the operating gap

Use a target and gap appropriate to the 4.0 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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330702-00-30-10-01-05

05 / Service review and related references

Offered-unit review

Request current photos of the complete 330702-00-30-10-01-05 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 11 mm Proximity Transducer System, 146256 Rev. T

Other Bently Nevada references

Bently Nevada 330103-00-18-05-02-05

Bently Nevada 330104-00-05-05-01-05

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

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