# 330102-00-30-10-01-05

## 01 / Product role and selected configuration

330102 probe — Extension cable — Matched Proximitor — Monitor channel

An existing imperial-thread mounting can be retained while the electrical chain is checked independently. Bently Nevada 330102-00-30-10-01-05 provides the armored probe end of an 8 mm channel, with a short integral lead that allows the required system length to be completed outside the mounting location.

### Measuring-chain selection

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.

| | |
|---|---|
| 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.

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## 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 | 7.59 +/-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; +/-5% for 1/5 m systems, +/-6.5% for 9 m |
| 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

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.

### 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.

### 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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## 05 / Service review and related references

### Offered-unit review

Request current photos of the complete 330102-00-30-10-01-05 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 8 mm Proximity Transducer System, 141194 Rev. AN

### Other Bently Nevada references

Bently Nevada 330878-50-00

Bently Nevada 330180-92-05

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

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