

BENTLY NEVADA TECHNICAL DOCUMENT

# Product Data Sheet

330105-02-12-90-12-00

01

## PRODUCT IDENTIFICATION

|              |                               |
|--------------|-------------------------------|
| Manufacturer | Bently Nevada                 |
| Model        | 330105-02-12-90-12-00         |
| Family       | 3300 XL 8 mm                  |
| Product type | Reverse-mount Proximity Probe |

02

## VERIFIED TECHNICAL DATA

|                                 |                                 |
|---------------------------------|---------------------------------|
| Total length option             | 90: 9.0 m                       |
| Connector and cable-type option | 12: ClickLoc; FluidLoc cable    |
| Agency approval option          | 00: Not required                |
| Case thread                     | 3/8-24 UNF                      |
| Probe tip material              | Polyphenylene sulfide (PPS)     |
| Probe case material             | AISI 303 or 304 stainless steel |
| Recommended case torque         | 7.5 N m, reverse mount          |
| Case-to-lead tensile rating     | 330 N maximum                   |

## 03 REMAINING TECHNICAL DATA

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Connector material                | Gold-plated brass or beryllium copper |
| Maximum connector torque          | 0.565 N m                             |
| Maximum case torque               | 22.6 N m                              |
| Probe-to-extension tensile rating | 270 N maximum                         |

## 04 TECHNICAL AND APPLICATION NOTES

Bently Nevada 330105-02-12-90-12-00 is a 3300 XL 8 mm reverse-mount proximity probe with 3/8-24 UNF threads. The exact order selects 9.0 m total probe length and clickloc; fluidloc cable. The fixed 330105-02-12 prefix identifies the reverse-mount design; it must not be decoded using the forward-mount case-length table. The final 00 specifies approvals not required. Verify the target, electrical system length and matching Proximitor before replacement.

## 05 APPLICATIONS

- Measure shaft vibration without contact: The 3300 XL 8 mm system is intended for dynamic shaft measurements on fluid-film bearing machinery. This reverse-mount proximity probe must fit the mounting arrangement and conductive target. Preserve the selected 9.0 m probe and the matching total electrical system length when connecting it to the Proximitor and vibration monitor.
- Track the conductive target position: Use the probe as part of the documented XL 8 mm transducer chain for static position measurement. The 3/8-24 UNF mechanical interface and selected lead construction must suit the installation. Establish the operating gap, target material calibration and monitor range from the complete equipment instructions, not from case length.
- Supply a Keyphasor timing reference: The manufacturer lists Keyphasor reference and speed measurements among the family applications. Engineer the target feature and full signal path for that purpose. Assess any overspeed-protection use against the specific manufacturer application note and the complete protection design; the probe alone does not provide that function.

## 06 INSTALLATION CONTROL

Check the complete suffix and the actual target arrangement. Use the complete transducer user guide for gap setting and commissioning.