

BENTLY NEVADA TECHNICAL DOCUMENT

# Product Data Sheet

330104-10-15-10-01-05

01

## PRODUCT IDENTIFICATION

|              |                         |
|--------------|-------------------------|
| Manufacturer | Bently Nevada           |
| Model        | 330104-10-15-10-01-05   |
| Family       | 3300 XL 8 mm            |
| Product type | Armored Proximity Probe |

02

## VERIFIED TECHNICAL DATA

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Unthreaded length option        | 10: 100 mm                                  |
| Overall case length option      | 15: 150 mm                                  |
| Total length option             | 10: 1.0 m                                   |
| Connector and cable-type option | 01: ClickLoc with protector; standard cable |
| Agency approval option          | 05: CSA, ATEX, IECEx                        |
| Case thread                     | M10 x 1                                     |
| Probe tip material              | Polyphenylene sulfide (PPS)                 |
| Probe case material             | AISI 303 or 304 stainless steel             |

### 03 REMAINING TECHNICAL DATA

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Recommended case torque     | 11.2 N m; 7.5 N m for first three threads   |
| Case-to-lead tensile rating | 330 N maximum                               |
| Connector material          | Gold-plated brass or beryllium copper       |
| Armor construction          | AISI 302 or 304 stainless steel; FEP jacket |

### 04 TECHNICAL AND APPLICATION NOTES

Bently Nevada 330104-10-15-10-01-05 is a 3300 XL 8 mm armored proximity probe with M10 x 1 threads. The exact order selects 1.0 m total probe length and clickloc with protector; standard cable. The ordered unthreaded section is 100 mm and the overall case length is 150 mm. Approval option 05 selects CSA, ATEX and IECEx approvals, subject to the actual marking and certificate conditions. 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 armored proximity probe must fit the mounting arrangement and conductive target. Preserve the selected 1.0 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 M10 x 1 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.