

BENTLY NEVADA TECHNICAL DOCUMENT

Product Data Sheet

330103-00-12-10-12-05

01

PRODUCT IDENTIFICATION

Manufacturer	Bently Nevada
Model	330103-00-12-10-12-05
Family	3300 XL 8 mm
Product type	Unarmored Proximity Probe

02

VERIFIED TECHNICAL DATA

Unthreaded length option	00: 0 mm
Overall case length option	12: 120 mm
Total length option	10: 1.0 m
Connector and cable-type option	12: ClickLoc; FluidLoc 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
Maximum connector torque	0.565 N m

04 TECHNICAL AND APPLICATION NOTES

Bently Nevada 330103-00-12-10-12-05 is a 3300 XL 8 mm unarmored proximity probe with M10 x 1 threads. The exact order selects 1.0 m total probe length and clickloc; fluidloc cable. The ordered unthreaded section is 0 mm and the overall case length is 120 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 unarmored 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.