



APTER POWER

PRODUCT REFERENCE MANUAL

330103-045-00-00

Bently Nevada 3300 XL 8 mm Ordering Code — Verification Required

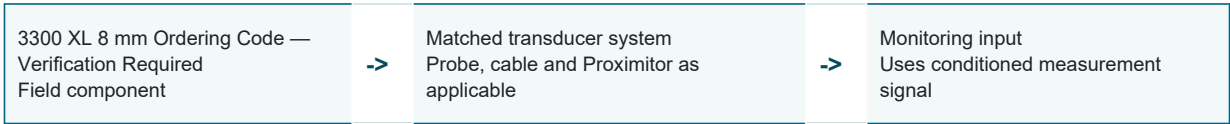
This Apter Power reference manual explains the supplied model, published system function, configuration status, technical data, compatible components and installation checks. It uses manufacturer-published information only.

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1. Product Overview

330103-045-00-00 is a supplied Bently Nevada identifier that begins with the 330103 metric, unarmored 3300 XL 8 mm probe family but does not follow the current manufacturer probe format 330103-AA-BB-CC-DD-EE. The exact physical configuration cannot be assigned from this shortened code alone.

The official 330103 family is a non-contacting eddy-current probe used in a complete 3300 XL 8 mm system to sense distance to a conductive target for shaft vibration, shaft position, Keyphasor reference, and speed measurements. This supplied code must be verified from the nameplate before component matching.



2. Model Configuration

330103	Official 3300 XL 8 mm metric probe family, M10 x 1 thread, without armor.
045-00-00	Does not map to the current five-position probe suffix format; do not interpret it as probe dimensions, cable type, or approval.
Verification	Obtain the physical nameplate, serial record, or official legacy ordering record before quotation or installation.

The current official format requires five probe suffix positions. The supplied 330103-045-00-00 code is incomplete or legacy relative to that structure and must be verified.

3. Technical Specifications

Values below are manufacturer-published. System-level values apply only to the complete correctly matched system under the official test conditions.

Manufacturer	Bently Nevada
Product Category	Machinery Monitoring System
Supplied Identifier	330103-045-00-00
Confirmed Family	3300 XL 8 mm metric proximity probe family
Confirmed Family Thread	M10 x 1
Confirmed Family Armor	Without armor
Current Official Format	330103-AA-BB-CC-DD-EE
Configuration Status	Shortened/non-current format; verification required
Family System Linear Range	2.0 mm (80 mil)
Family System Scale Factor	7.87 V/mm (200 mV/mil), standard system
Family Frequency Response	0 to 10 kHz, +0/-3 dB
Family Recommended Gap	1.27 mm (50 mil), approximately -9 Vdc
Family Probe Temperature	-52°C to +177°C (-62°F to +350°F)
Minimum Bend Radius	25.4 mm (1.0 in)
Maximum M10 Thread Engagement	15 mm
Reference Target	AISI 4140 steel
Unthreaded Length	Not confirmed from supplied code
Case Length	Not confirmed from supplied code
Probe/Cable Length	Not confirmed from supplied code
Approval	Not confirmed from supplied code

4. Compatible Components

- No exact compatible component can be specified from 330103-045-00-00 alone.
- After verification, match probe length plus extension cable to the 330180 Proximitior Sensor total length.
- Use only 3300 XL 8 mm components and approval options supported by the verified suffix and current official documentation.

5. Core Functions and Applications

Nameplate Verification Compare every suffix on the physical product with the current or applicable legacy Bently Nevada ordering record.	Legacy-System Documentation Use serial-number and plant records to establish whether the identifier came from an older configuration convention.
Fluid-Film-Bearing Machinery The confirmed 330103 family is used for non-contacting shaft vibration and position measurements.	Radial Shaft Vibration A correctly identified and matched 3300 XL 8 mm system measures dynamic shaft motion.
Static Shaft Position The complete system can measure the static gap between the probe tip and a conductive target.	Keyphasor and Speed The confirmed family can support reference and speed applications only after exact configuration and system matching are established.

6. Installation and Commissioning Checklist

- Do not treat 045 as a cable length or probe dimension without an official record.
- Do not select an extension cable or Proximitior Sensor until the full probe length is verified.
- Do not infer connector, FluidLoc, armor, or protector options from this shortened code.
- Follow the 25.4 mm bend radius and 15 mm M10 thread-engagement limits only after confirming it is a standard 330103 assembly.
- Do not use in a hazardous area until the exact approval suffix and nameplate marking are confirmed.

This Apter Power manual is a selection aid. It does not replace manufacturer installation drawings, certification documents, site procedures or qualified engineering review.

7. Model-Specific FAQ

1 What is 330103-045-00-00?

It is a supplied identifier beginning with the official 330103 metric unarmored 3300 XL 8 mm probe family, but the remaining code does not follow the current ordering format.

2 Why is the configuration not decoded?

The current format is 330103-AA-BB-CC-DD-EE. The supplied 045-00-00 has fewer suffix positions, so assigning dimensions or cable options would be guesswork.

3 Can 045 be treated as a 4.5 m extension cable?

No. That interpretation belongs to the separate 330130 extension-cable format and must not be transferred to a 330103 probe identifier.

4 What facts are confirmed for the family?

330103 identifies an M10 x 1, unarmored 3300 XL 8 mm proximity probe family used in a complete eddy-current transducer system.

5 What signals can the verified family measure?

With the correct matched components, it supports dynamic shaft vibration, static position, Keyphasor reference, and speed measurements.

6 Which compatible components should be ordered?

None can be specified exactly until probe length, connector/cable option, and approval suffix are verified from the physical nameplate or official legacy record.

7 Can it be used in a hazardous area?

Not based on this code alone. The exact approval marking, certificate, barrier arrangement, and installation drawing must be verified.

8 What information should be supplied for verification?

Provide clear nameplate photos, full model text, serial number, cable and connector images, and any original Bently Nevada documentation.

8. Lifecycle and Approval Status

Baker Hughes publishes the 330103 family in datasheet 141194 Rev. AM, but the supplied shortened suffix is not listed in the current ordering structure. Lifecycle and approval status for the exact identifier remain unconfirmed.

The current official format requires five probe suffix positions. The supplied 330103-045-00-00 code is incomplete or legacy relative to that structure and must be verified.

9. Official Manufacturer Sources

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AM

<https://dam.bakerhughes.com/m/23d2a1de24360b13/original/3300-XL-8mm-Proximity-Transducer-System-Datasheet-141194-pdf.pdf>

Source-access date: 12 August 2026. Manufacturer document revisions may change. Confirm the current revision before use.

10. Apter Power Support

Seller	Apter Power
Website	https://www.apterpower.com
Product page	https://www.apterpower.com/Bently-Nevada/330103-045-00-00
Email	sales13@apterpower.com
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Quotation note	Confirm nameplate, condition, included accessories and approval requirement.

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