APTER POWER PRODUCT MANUAL

330105-XX-XX-10-02-CN MOD:165931-01

3300 XL 8 mm Reverse-Mount Proximity Probe

The 330105-XX-XX-10-02-CN MOD:165931-01 is identified as a Bently Nevada 3300 XL 8 mm reverse-mount proximity probe with 3/8-24 UNF threads, a 1.0 m total probe length, and a miniature ClickLoc coaxial connector. The current public standard ordering table fixes the 330105 case fields as 02-12; it does not decode XX-XX, CN, or modification 165931-01.

With a correctly matched 330130 extension cable and 3300 XL Proximitor Sensor, the probe senses distance to a conductive shaft or target and supports vibration, position, Keyphasor, and speed measurements. The special modification and country code must be confirmed from the physical nameplate and manufacturer order file before compatibility decisions.

Manufacturer	Bently Nevada / verify where stated
Prepared by	Apter Power
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1. Product Identity and Model Configuration

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Model Configuration

Code	Confirmed definition
330105	3300 XL 8 mm reverse-mount probe with 3/8-24 UNF threads.
XX-XX	Special/non-standard case fields; not decoded in the current public datasheet.
10	1.0 m total probe length.
02	Miniature ClickLoc coaxial connector.
CN	Country/special code not decoded in the current public datasheet.
MOD:165931-01	Manufacturer modification reference; technical change not publicly decoded.

Key Features

- Reverse-mount construction supports installations assembled from inside the machine or housing.
- One-metre lead can form a 5 m or 9 m electrical system with the correct extension cable.
- ClickLoc connector provides a finger-tight matched-system connection.
- Special identifiers are retained exactly and separated from published standard options.

2. Technical Specifications

Published values and exact-code limitations are reproduced or summarized from the source named below. Unpublished values are not inferred.

Parameter	Confirmed value
Product Type	3300 XL 8 mm reverse-mount proximity probe
Mounting Thread	3/8-24 UNF
Standard Public Case Format	330105-02-12
Requested Case Fields	XX-XX - verify nameplate and order drawing
Total Probe Length	1.0 m (3.3 ft)
Connector	Miniature ClickLoc coaxial connector
Special Code	CN - not publicly decoded
Modification Reference	165931-01 - not publicly decoded
Probe Tip Diameter	8.0 mm (0.31 in)
System Linear Range	2.0 mm (80 mil)
System Scale Factor	7.87 V/mm (200 mV/mil); tolerance depends on 1 m, 5 m, or 9 m system
Recommended Radial Gap	Approximately 1.27 mm (50 mil), -9 Vdc
Frequency Response	0 to 10 kHz, +0/-3 dB
Probe Tip Material	Polyphenylene sulfide (PPS)
Probe Case Material	AISI 303 or 304 stainless steel
Standard Probe Cable	75 ohm triaxial FEP-insulated cable
Probe Temperature	-52 C to +177 C (-62 F to +350 F)
Minimum Cable Bend Radius	25.4 mm (1.0 in)
Minimum Flat Target	15.2 mm (0.6 in) diameter

Technical Note

XX-XX, CN, and MOD:165931-01 are not publicly decoded. The nameplate and manufacturer modification drawing are mandatory for dimensional, approval, and compatibility verification.

3. Functions, Applications and Components

Core Functions

- Measures non-contacting distance between the probe tip and a conductive target.
- Supports dynamic radial shaft-vibration measurement in a matched transducer system.
- Supports static and axial shaft-position measurement.
- Supports Keyphasor reference and speed measurement with a compatible monitoring channel.

Application Areas

Application	System role
Fluid-Film-Bearing Machinery	Provides shaft vibration and position measurements at reverse-mount 3/8-24 UNF locations on rotating machinery.
Radial Shaft Vibration	Measures dynamic shaft motion relative to the probe mounting point.
Static Shaft Position	Measures the static distance between the probe tip and a conductive shaft or target.
Axial or Thrust Position	Supports axial displacement measurement when the target and mounting geometry meet official requirements.
Keyphasor Reference	Supports phase-reference measurement with the correct target geometry and monitoring input.
Speed Measurement	Supports rotational-speed measurement when the matched system and monitoring channel meet manufacturer requirements.

Compatible Components

- A compatible 4.0 m 330130 extension cable and 5.0 m Proximitor Sensor, or 8.0 m cable and 9.0 m sensor, subject to modification verification.
- Reverse-mount hardware and sleeve geometry that match the manufacturer drawing for modification 165931-01.
- Bently Nevada monitoring channels configured for the matched 3300 XL 8 mm system.
- Only approval barriers and installation drawings confirmed for the exact nameplate code.

Lifecycle Status

Baker Hughes currently publishes the standard 330105 reverse-mount family in datasheet 141194 Rev. AM. No public lifecycle or configuration detail was found for CN MOD:165931-01.

4. Installation Precautions

- Obtain the manufacturer drawing or order record for modification 165931-01 before dimensional substitution.
- Do not replace XX-XX with standard 02-12 dimensions without nameplate and drawing confirmation.
- Match the 1.0 m probe lead to the correct extension cable and Proximitor Sensor electrical length.
- Maintain the 25.4 mm minimum bend radius and follow reverse-mount torque instructions.
- Verify the CN code, approvals, barriers, and safe-use drawing from current manufacturer documents.

STOP - Verify before installation
XX-XX, CN, and MOD:165931-01 are not publicly decoded. The nameplate and manufacturer modification drawing are mandatory for dimensional, approval, and compatibility verification.
Use the physical nameplate and current original-manufacturer documents as the controlling records.

5. Source and Use Notice

Technical source

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

Apter Power product page

https://www.apterpower.com/Bently-Nevada/330105-xx-xx-10-02-cn-mod-165931-01

Use Notice

This is an original Apter Power product-specific reference prepared from the source named above. It is not a Bently Nevada publication and does not replace the original datasheet, nameplate, certification, installation drawing, or safety instructions. Confirm current manufacturer documentation before purchase, installation, or replacement.

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For availability and quotation details, visit www.apterpower.com.