

APTER POWER PRODUCT MANUAL

330101-00-16-10-02-05

3300 XL 8 mm 3/8-24 UNF Proximity Probe

The 330101-00-16-10-02-05 is a Bently Nevada 3300 XL 8 mm non-contacting eddy-current probe with a 3/8-24 UNF threaded case, no armor, 0.0 in unthreaded length, 1.6 in overall case length, 1.0 m (3.3 ft) standard cable, a miniature ClickLoc connector without a protector, and the CSA, ATEX, and IECEx approvals option.

With a correctly matched 330130 extension cable and 3300 XL Proximitor Sensor, it converts probe-to-target distance into a proportional voltage for shaft vibration, shaft position, Keyphasor, and speed measurement on fluid-film-bearing machinery.

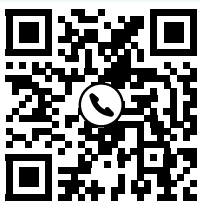
Manufacturer	Bently Nevada / verify where stated
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SCAN FOR PRODUCT & QUOTE
330101-00-16-10-02-05

1. Product Identity and Model Configuration

The 330101-00-16-10-02-05 is a Bently Nevada 3300 XL 8 mm non-contacting eddy-current probe with a 3/8-24 UNF threaded case, no armor, 0.0 in unthreaded length, 1.6 in overall case length, 1.0 m (3.3 ft) standard cable, a miniature ClickLoc connector without a protector, and the CSA, ATEX, and IECEx approvals option.

With a correctly matched 330130 extension cable and 3300 XL Proximity Sensor, it converts probe-to-target distance into a proportional voltage for shaft vibration, shaft position, Keyphasor, and speed measurement on fluid-film-bearing machinery.

Model Configuration

Code	Confirmed definition
330101	3/8-24 UNF 3300 XL 8 mm probe without armor.
00	0.0 in unthreaded length.
16	1.6 in overall case length.
10	1.0 m (3.3 ft) total probe length.
02	Miniature ClickLoc connector without protector; standard cable.
05	CSA, ATEX, and IECEx approvals option.

Key Features

- The 1.6 in case provides the ordered insertion geometry.
- 1.0 m (3.3 ft) probe lead supports A compatible 4.0 m extension cable for a 5.0 m system or 8.0 m extension cable for a 9.0 m system..
- Unarmored standard cable permits flexible routing when mechanically protected.
- ClickLoc connection is designed for finger-tight assembly.

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 Unpublished values are not inferred.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 unarmored proximity probe
Mounting Thread	3/8-24 UNF
Aarmor	None
Unthreaded Length	0.0 in
Overall Case Length	1.6 in
Total Probe Length	1.0 m (3.3 ft)
Connector and Cable	ClickLoc without protector; standard cable
Approval Option	05 - CSA, ATEX, IECEx
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

The probe length plus extension-cable length must equal the selected Proximity Sensor system length. Verify the nameplate and current approval documents before use.

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 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 extension cable for a 5.0 m system or 8.0 m extension cable for a 9.0 m system.
- A 3300 XL 8 mm Proximity Sensor with the same total electrical length.
- 3/8-24 UNF probe mounting hardware installed to official engagement and torque limits.
- Bently Nevada monitoring channels that accept the matched Proximity Sensor output.

Lifecycle Status

Baker Hughes currently publishes Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AM and lists every standard option position used in 330101-00-16-10-02-05. No separate lifecycle status is published for the complete suffix.

4. Installation Precautions

- Use a compatible 4.0 m extension cable for a 5.0 m system or 8.0 m extension cable for a 9.0 m system.
- Maintain the published 25.4 mm minimum cable bend radius and protect the unarmored lead.
- Verify case insertion depth, side-view clearance, target size, and shaft diameter before mounting.
- Set the final gap using the complete matched system and the actual target material.
- Confirm the 05 approval marking and applicable installation drawing before hazardous-area use.

STOP - Verify before installation

The probe length plus extension-cable length must equal the selected Proximity Sensor system length. Verify the nameplate and current approval documents before use.

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/330101-00-16-10-02-05>

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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