

APTER POWER PRODUCT MANUAL

330103-00-13-05-02-05

3300 XL 8 mm M10 x 1 Proximity Probe

The 330103-00-13-05-02-05 is a Bently Nevada 3300 XL 8 mm non-contacting eddy-current probe with an M10 x 1 threaded case, no armor, 0 mm unthreaded length, 130 mm overall case length, 0.5 m (1.6 ft) standard cable, a miniature ClickLoc connector without a protector, and the CSA, ATEX, and IECEx approvals option.

In a correctly matched 3300 XL 8 mm transducer system, it detects distance to a conductive shaft or target and supplies proportional static-position and dynamic-vibration signals to compatible machinery-protection and condition-monitoring channels.

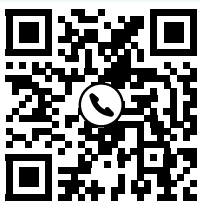
Manufacturer	Bently Nevada / verify where stated
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330103-00-13-05-02-05

1. Product Identity and Model Configuration

The 330103-00-13-05-02-05 is a Bently Nevada 3300 XL 8 mm non-contacting eddy-current probe with an M10 x 1 threaded case, no armor, 0 mm unthreaded length, 130 mm overall case length, 0.5 m (1.6 ft) standard cable, a miniature ClickLoc connector without a protector, and the CSA, ATEX, and IECEx approvals option.

In a correctly matched 3300 XL 8 mm transducer system, it detects distance to a conductive shaft or target and supplies proportional static-position and dynamic-vibration signals to compatible machinery-protection and condition-monitoring channels.

Model Configuration

Code	Confirmed definition
330103	M10 x 1 metric 3300 XL 8 mm probe without armor.
00	0 mm unthreaded length.
13	130 mm overall case length.
05	0.5 m (1.6 ft) total probe length.
02	Miniature ClickLoc connector without protector; standard cable.
05	CSA, ATEX, and IECEx approvals option.

Key Features

- Compact 130 mm metric case for direct M10 x 1 mounting.
- 0.5 m (1.6 ft) probe lead forms a matched system with the correct extension cable.
- Unarmored standard cable supports flexible protected routing.
- The 05 ordering option selects the published multiple-approvals configuration.

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 Unpublished values are not inferred.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 metric proximity probe
Mounting Thread	M10 x 1
Armor	None
Unthreaded Length	0 mm
Overall Case Length	130 mm
Total Probe Length	0.5 m (1.6 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

330103 is the official metric M10 x 1 probe family without armor. Match the electrical system length and verify the 05 certification on the supplied nameplate.

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 M10 x 1 metric 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 correctly configured 4.5 m 330130 extension cable with a 5.0 m 3300 XL Proximity Sensor.
- A 3300 XL 8 mm Proximity Sensor with the same total system length.
- M10 x 1 probe mounting hardware installed to official engagement and torque limits.
- Compatible Bently Nevada vibration, position, phase-reference, and speed monitoring channels.

Lifecycle Status

Baker Hughes currently publishes Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AM and lists the 330103 family and all option values used in 330103-00-13-05-02-05. No exact-suffix lifecycle phase is stated.

4. Installation Precautions

- Use a correctly configured 4.5 m 330130 extension cable with a 5.0 m 3300 xl proximator sensor.
- Maintain the 25.4 mm minimum bend radius and protect the unarmored cable.
- Follow official M10 x 1 thread engagement and probe-case torque instructions.
- Gap the complete system against the intended target material before commissioning.
- Confirm the 05 approval nameplate, barriers, and applicable safe-use drawing before hazardous-area installation.

STOP - Verify before installation

330103 is the official metric M10 x 1 probe family without armor. Match the electrical system length and verify the 05 certification on the supplied nameplate.

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/330103-00-13-05-02-05>

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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