

APTER POWER PRODUCT TECHNICAL REFERENCE

330101-30-60-10-02-05

3300 XL 8 mm Long-Reach Proximity Probe

This is a 3300 XL 8 mm standard proximity probe configured with a 3.0 in unthreaded section, a 6.0 in case and a 1.0 m cable.

It supplies the proximity response used by monitoring systems to track shaft motion, radial vibration and machine position-related conditions.

Document field	Value
Manufacturer	Bently Nevada
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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SCAN FOR PRODUCT & QUOTE

330101-30-60-10-02-05

1. Product Overview and Identity

This is a 3300 XL 8 mm standard proximity probe configured with a 3.0 in unthreaded section, a 6.0 in case and a 1.0 m cable.

It supplies the proximity response used by monitoring systems to track shaft motion, radial vibration and machine position-related conditions.

Model Configuration

Field	Verified value
Complete model	330101-30-60-10-02-05
Manufacturer	Bently Nevada
Product description	3300 XL 8 mm Long-Reach Proximity Probe

Key Features

- Exact product identifier: 330101-30-60-10-02-05
- The probe is paired with a 3300 XL extension cable and a Proximitor Sensor; the -02 connector option is miniature ClickLoc coaxial and the -05 option carries CSA, ATEX and IECEx approvals.
- The longer unthreaded section is relevant where the sensing end must project through a machine bracket or housing wall before the threaded case engages.
- Check the unsupported 3.0 in projection against the machine design before locking the probe position.

2. Technical Specifications

Technical data for 330101-30-60-10-02-05 is organized below for engineering review and configuration control.

Parameter	Technical value
Probe diameter	8.0 mm
Case thread	3/8-24 UNF-2A
Unthreaded length	3.0 in
Case length	6.0 in
Cable length	1.0 m

Configuration Control

Check the unsupported 3.0 in projection against the machine design before locking the probe position.

3. Functions, Applications and Components

Core Function

330101-30-60-10-02-05 detects the changing gap between its probe tip and a conductive rotating target. The matched Proximity Sensor converts this eddy-current response into a voltage used for static position and dynamic vibration channels.

Application Areas

Application	System role
Radial vibration	330101-30-60-10-02-05 supports shaft-motion measurement in the matched proximity loop.
Axial position	The transducer chain can track static movement relative to the probe tip.
Rotating equipment	Typical measurement points occur on turbines, compressors, pumps and motors.
Machinery protection	The conditioned signal is connected to the configured monitor channel.

Compatible Components

- Matched Bently Nevada Proximity Sensor
- Compatible extension cable selected for total system length
- Threaded mounting bracket or machine probe boss
- Machinery monitor input configured for proximity voltage

4. Installation Precautions

- Confirm the complete 330101-30-60-10-02-05 mechanical code against the mounting point.
- Inspect target material, target size and probe-tip clearance.
- Route the probe lead without exceeding its minimum bend limitations.
- Match probe lead plus extension cable to the sensor system length.

Engineering FAQ - Questions 1 to 4

What engineering function does 330101-30-60-10-02-05 perform in its monitoring loop?

330101-30-60-10-02-05 detects the changing gap between its probe tip and a conductive rotating target. The matched Proximity Sensor converts this eddy-current response into a voltage used for static position and dynamic vibration channels.

Which probe diameter applies to 330101-30-60-10-02-05?

The configured probe diameter for 330101-30-60-10-02-05 is 8.0 mm.

What case thread must be checked when specifying 330101-30-60-10-02-05?

Use 3/8-24 UNF-2A for the case thread when reviewing this complete model.

How does the unthreaded length selection affect 330101-30-60-10-02-05?

This configuration identifies unthreaded length as 3.0 in; include that value in the installation record.

Manufacturer Technical Source

3300 XL 8 mm Proximity Transducer System Datasheet 141194