

APTER POWER PRODUCT TECHNICAL REFERENCE

330171-00-08-10-01-05

3300 5 mm Standard Proximity Probe

This is a 3300 5 mm standard proximity probe with a 1/4-28 UNF threaded case, 0.8 in case length and 1.0 m cable. It supplies an eddy-current proximity response that the matched system uses to measure shaft position and vibration-related motion.

Document field	Value
Manufacturer	Bently Nevada
Prepared by	Apter Power
Document ID	AP-BN-18-330171-00-08-10-01-05-TR-R2
Revision	R2
Issue date	2026-08-31

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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SCAN FOR PRODUCT & QUOTE

330171-00-08-10-01-05

1. Product Overview and Identity

This is a 3300 5 mm standard proximity probe with a 1/4-28 UNF threaded case, 0.8 in case length and 1.0 m cable. It supplies an eddy-current proximity response that the matched system uses to measure shaft position and vibration-related motion.

Model Configuration

Field	Verified value
Complete model	330171-00-08-10-01-05
Manufacturer	Bently Nevada
Product description	3300 5 mm Standard Proximity Probe

Key Features

- Exact product identifier: 330171-00-08-10-01-05
- The probe is combined with a 3300 XL 5 mm extension cable and a 5 mm Proximitor Sensor. The -01 connector selection provides a ClickLoc connector with protector.
- It is used on fluid-film bearing machines and on Keyphasor or speed measurement duties where a compact 5 mm sensing element is required.
- Check the 1/4-28 UNF-2A probe thread against the machine bracket before setting the measurement gap.

2. Technical Specifications

Technical data for 330171-00-08-10-01-05 is organized below for engineering review and configuration control.

Parameter	Technical value
Probe diameter	5.0 mm
Case thread	1/4-28 UNF-2A
Case length	0.8 in
Cable length	1.0 m
Connector	ClickLoc with protector

Configuration Control

Check the 1/4-28 UNF-2A probe thread against the machine bracket before setting the measurement gap.

3. Functions, Applications and Components

Core Function

330171-00-08-10-01-05 detects the changing gap between its probe tip and a conductive rotating target. The matched Proximitor Sensor converts this eddy-current response into a voltage used for static position and dynamic vibration channels.

Application Areas

Application	System role
Radial vibration	330171-00-08-10-01-05 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 Proximitor 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 330171-00-08-10-01-05 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 330171-00-08-10-01-05 perform in its monitoring loop?

330171-00-08-10-01-05 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 330171-00-08-10-01-05?

The configured probe diameter for 330171-00-08-10-01-05 is 5.0 mm.

What case thread must be checked when specifying 330171-00-08-10-01-05?

Use 1/4-28 UNF-2A for the case thread when reviewing this complete model.

How does the case length selection affect 330171-00-08-10-01-05?

This configuration identifies case length as 0.8 in; include that value in the installation record.

Manufacturer Technical Source

3300 5 mm Proximity Transducer System Datasheet 172036