

APTER POWER PRODUCT TECHNICAL REFERENCE

330172-00-08-10-01-05

3300 5 mm Armored Proximity Probe

This is a 3300 5 mm armored proximity probe with a 1/4-28 UNF threaded case and 1.0 m cable.

The 5 mm probe senses the gap to a conductive target and supplies the input for static position and dynamic vibration measurement in the complete proximity transducer system.

Document field	Value
Manufacturer	Bently Nevada
Prepared by	Apter Power
Document ID	AP-BN-17-330172-00-08-10-01-05-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

330172-00-08-10-01-05

1. Product Overview and Identity

This is a 3300 5 mm armored proximity probe with a 1/4-28 UNF threaded case and 1.0 m cable.

The 5 mm probe senses the gap to a conductive target and supplies the input for static position and dynamic vibration measurement in the complete proximity transducer system.

Model Configuration

Field	Verified value
Complete model	330172-00-08-10-01-05
Manufacturer	Bently Nevada
Product description	3300 5 mm Armored Proximity Probe

Key Features

- Exact product identifier: 330172-00-08-10-01-05
- It operates with the compatible 3300 XL 5 mm extension cable and 5 mm Proximitor Sensor. The -01 connector selection includes a ClickLoc connector with connector protector.
- Its smaller probe diameter supports vibration, position, Keyphasor and speed measurements where the installation space is tighter than a standard 8 mm probe location.
- Verify that the smaller 5 mm probe tip has the required target geometry and clearance at the measurement location.

2. Technical Specifications

Technical data for 330172-00-08-10-01-05 is organized below for engineering review and configuration control.

Parameter	Technical value
Probe diameter	5.0 mm
Case thread	1/4-28 UNF-2A
Unthreaded length	0.0 in
Case length	0.8 in
Cable length	1.0 m

Configuration Control

Verify that the smaller 5 mm probe tip has the required target geometry and clearance at the measurement location.

3. Functions, Applications and Components

Core Function

330172-00-08-10-01-05 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	330172-00-08-10-01-05 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 330172-00-08-10-01-05 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 330172-00-08-10-01-05 perform in its monitoring loop?

330172-00-08-10-01-05 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 330172-00-08-10-01-05?

The configured probe diameter for 330172-00-08-10-01-05 is 5.0 mm.

What case thread must be checked when specifying 330172-00-08-10-01-05?

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

How does the unthreaded length selection affect 330172-00-08-10-01-05?

This configuration identifies unthreaded length as 0.0 in; include that value in the installation record.

Manufacturer Technical Source

3300 5 mm Proximity Transducer System Datasheet 172036