

APTER POWER PRODUCT TECHNICAL REFERENCE

330103-00-16-05-11-05

3300 XL 8 mm FluidLoc Metric Proximity Probe

This is a metric 3300 XL 8 mm proximity probe with an M10 x 1 case, a 160 mm case length and the FluidLoc connector-protector selection.

The probe detects changing distance to a conductive target, providing the sensing signal used for rotating-machine vibration and position channels.

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

330103-00-16-05-11-05

1. Product Overview and Identity

This is a metric 3300 XL 8 mm proximity probe with an M10 x 1 case, a 160 mm case length and the FluidLoc connector-protector selection.

The probe detects changing distance to a conductive target, providing the sensing signal used for rotating-machine vibration and position channels.

Model Configuration

Field	Verified value
Complete model	330103-00-16-05-11-05
Manufacturer	Bently Nevada
Product description	3300 XL 8 mm FluidLoc Metric Proximity Probe

Key Features

- Exact product identifier: 330103-00-16-05-11-05
- It operates as part of a 3300 XL 8 mm transducer system with a compatible extension cable and Proximitor Sensor. The -05 option corresponds to CSA, ATEX and IECEx approvals.
- The FluidLoc connector-protector arrangement is selected for installations that require the specified connector protection while retaining the M10 x 1 mounting interface.
- Keep the selected FluidLoc connector-protector arrangement accessible for inspection after the cable is routed.

2. Technical Specifications

Technical data for 330103-00-16-05-11-05 is organized below for engineering review and configuration control.

Parameter	Technical value
Probe diameter	8.0 mm
Case thread	M10 x 1
Case length	160 mm
Cable length	0.5 m
Connector option	FluidLoc with protector

Configuration Control

Keep the selected FluidLoc connector-protector arrangement accessible for inspection after the cable is routed.

3. Functions, Applications and Components

Core Function

330103-00-16-05-11-05 detects the changing gap between its probe tip and a conductive rotating target. The matched Proximitior Sensor converts this eddy-current response into a voltage used for static position and dynamic vibration channels.

Application Areas

Application	System role
Radial vibration	330103-00-16-05-11-05 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 Proximitior 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 330103-00-16-05-11-05 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 330103-00-16-05-11-05 perform in its monitoring loop?

330103-00-16-05-11-05 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 330103-00-16-05-11-05?

The configured probe diameter for 330103-00-16-05-11-05 is 8.0 mm.

What case thread must be checked when specifying 330103-00-16-05-11-05?

Use M10 x 1 for the case thread when reviewing this complete model.

How does the case length selection affect 330103-00-16-05-11-05?

This configuration identifies case length as 160 mm; include that value in the installation record.

Manufacturer Technical Source

3300 XL 8 mm Proximity Transducer System Datasheet 141194