APTER POWER PRODUCT MANUAL

330104-00-06-90-02-05

Bently Nevada 3300 XL 8 mm armored M10 x 1 proximity probe

The 330104-00-06-90-02-05 is a Bently Nevada 3300 XL 8 mm non-contacting eddy-current proximity probe with M10 x 1 threads, stainless-steel armor, 0 mm unthreaded length, a 60 mm case, a 9.0 m standard cable, a ClickLoc connector without protector, and CSA, ATEX, and IECEx approvals option 05.

Connected directly to a 9.0 m 330180 Proximitor Sensor, the probe detects distance to a conductive shaft or target and the sensor converts the gap into a voltage for radial vibration, static or axial position, Keyphasor phase reference, and speed measurements on fluid-film-bearing machinery.

Manufacturer	Bently Nevada
Prepared by	Apter Power
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1. Product Overview and Identity

The 330104-00-06-90-02-05 is a Bently Nevada 3300 XL 8 mm non-contacting eddy-current proximity probe with M10 x 1 threads, stainless-steel armor, 0 mm unthreaded length, a 60 mm case, a 9.0 m standard cable, a ClickLoc connector without protector, and CSA, ATEX, and IECEx approvals option 05.

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Model Configuration

Code	Official configuration
330104	M10 x 1 3300 XL 8 mm probe with armor.
00	0 mm unthreaded length.
06	60 mm overall case length.
90	9.0 m total probe length.
02	ClickLoc connector without protector; standard cable.
05	CSA, ATEX, and IECEx approvals option.

Key Features

- The 60 mm metric case provides a short armored M10 mounting geometry.
- The integral 9.0 m lead connects directly to a 9.0 m 330180 sensor without an extension cable.
- Armor protects the long probe lead during exposed routing.
- Option 05 selects the published CSA, ATEX, and IECEx configuration.

2. Technical Specifications

Only manufacturer-published information is stated. A value absent for the exact complete suffix is identified rather than inferred.

Parameter	Verified value
Product Type	3300 XL 8 mm armored proximity probe
Mounting Thread	M10 x 1
Armor	Stainless-steel armor with outer jacket
Unthreaded Length	0 mm
Overall Case Length	60 mm
Total Probe Length	9.0 m (29.5 ft)
Connector and Cable	ClickLoc without protector; 75 ohm triaxial FEP cable
Approval Option	05 - CSA, ATEX, IECEx
Probe Tip Diameter	8.0 mm (0.31 in)
Matched-System Linear Range	2.0 mm (80 mil)
Recommended Radial-Vibration Gap	Approximately 1.27 mm (50 mil), -9 Vdc
Nominal 9 m Scale Factor	7.87 V/mm (200 mV/mil), +/-6.5%
Frequency Response	0 to 10 kHz, +0/-3 dB
Minimum Flat Target	15.2 mm (0.6 in) diameter
Minimum Cable Bend Radius	25.4 mm (1.0 in)
Probe Tip / Case Material	PPS tip; AISI 303 or 304 stainless-steel case
Published Probe Weight Reference	323 g/m (11.4 oz/ft stated as family reference); exact suffix shipping mass not published

Verification Note

Connect directly to a 9 m 330180 sensor and verify the 60 mm M10 geometry, bend radius, target, gap, option-05 evidence, and monitoring scale.

3. Functions, Applications and Components

Core Functions

- Measures probe-to-target distance without contact.
- Provides dynamic shaft-vibration information through the matched system.
- Supports static and axial-position measurement.
- Supports Keyphasor phase reference and speed measurement.

Application Areas

Application	System role
Turbine Bearings	Measures shaft-relative radial vibration.
Compressors	Tracks shaft position and vibration on fluid-film bearings.
Axial Position	Measures thrust movement against a conductive target.
Keyphasor Reference	Provides phase reference from suitable target geometry.
Speed Measurement	Supports rotational-speed monitoring channels.
Hazardous-Area Machinery	Option 05 can support certified installations only with the current marking and drawing.

Compatible Components

- A 9.0 m 330180-90, -91, or -92 Proximitor Sensor; no extension cable is used.
- M10 x 1 mounting hardware installed within the official thread-engagement and torque limits.
- A suitable AISI 4140 target meeting the published size and shaft-diameter conditions.
- Bently Nevada monitor inputs configured for a 3300 XL 8 mm 9 m system.

Lifecycle Status

Baker Hughes currently publishes Datasheet 141194 Rev. AM and lists every ordering field used in 330104-00-06-90-02-05. No separate lifecycle phase is published.

4. Installation Precautions

- Connect directly to a 9.0 m 330180 Proximitor Sensor; do not add an extension cable.
- Verify the 60 mm M10 x 1 mounting geometry and follow the published engagement and torque limits.
- Maintain the 25.4 mm bend radius and protect the 9 m armored lead from crushing, sharp edges, and connector loading.
- Set the final gap electrically against the actual target and verify target size, probe spacing, and shaft diameter.
- Confirm the option-05 nameplate, certificates, barriers, and installation drawing before hazardous-area use.

STOP - Verify before installation
Connect directly to a 9 m 330180 sensor and verify the 60 mm M10 geometry, bend radius, target, gap, option-05 evidence, and monitoring scale.
Use the physical nameplate and current Bently Nevada documents as the controlling records.

5. Official Source and Use Notice

Official source

Baker Hughes / Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AM - https://dam.bakerhughes.com/m/23d2a1de24360b13/original/3300-XL-8mm-Proximity-Transducer-System-Datasheet-141194-pdf.pdf

Apter Power product page

https://www.apterpower.com/Bently-Nevada/330104-00-06-90-02-05

Use Notice

This original Apter Power product-specific reference is prepared from the named Bently Nevada source. It is not a Bently Nevada publication and does not replace the original datasheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.