01 / Product and system dashboard

BENTLY NEVADA

330104-00-04-90-02-00

Proximity Probe

Product role

Bently Nevada 330104-00-04-90-02-00 is an armored 3300 XL 8 mm proximity probe with an M10 x 1 case and a 9.0 m total length option.

Conductive target
Shaft position or motion

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330104 probe
Eddy-current sensing

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Proximitor Sensor
Gap-related voltage

Engineering scope

Ordering options define this armored M10 x 1 probe. Performance values apply to a complete matched 3300 XL 8 mm system under its stated calibration conditions; approval option 00 does not select agency approvals.

02 / Verified identity and technical relationships

Property	Applicable fact	Property	Applicable fact
Product family	3300 XL 8 mm	Total length	9.0 m, option 90
Probe design	330104 standard mount, armored	Cable type	Standard cable, option 02
Sensing tip diameter	8 mm	Connector	Miniature coaxial ClickLoc
Case thread	M10 x 1	Factory connector protector	Not included in option 02
Unthreaded length	0 mm, option 00	Agency approval option	00 — not required
Overall case length	40 mm, option 04	Probe tip material	Polyphenylene sulfide (PPS)

Configuration boundary

Ordering options define this armored M10 x 1 probe. Performance values apply to a complete matched 3300 XL 8 mm system under its stated calibration conditions; approval option 00 does not select agency approvals.

03 / Applications and system integration

Radial shaft vibration

Place the probe radially toward a conductive shaft and use a correctly configured transducer chain to observe shaft motion.

Axial position channels

Use the gap-dependent signal for position measurement with a suitable conductive target and the specified calibration.

Phase reference sensing

A suitable target feature and matched monitoring channel can provide a once-per-turn reference for machine analysis.

Probe replacement planning

Retain the M10 x 1 case, 40 mm reach and 9.0 m length selection when checking the installed mechanical and electrical arrangement.

Functional context

The 3300 XL 8 mm measurement chain uses a probe and a compatible Proximitor Sensor, with an extension cable where required by the selected system length. Its output follows distance to the conductive target and supports both static position and dynamic shaft motion. System calibration uses an AISI 4140 steel target by default; a different target material requires the appropriate calibration rather than an assumed scale.

04 / Service and installation decisions

Match the thread

Confirm M10 x 1 mounting and the selected case reach before inserting the probe.

Preserve electrical length

Match the 9.0 m total-length selection to the intended Proximitor system.

Protect the connector

Option 02 has no factory-installed protector. Plan suitable protection for the actual environment.

Check target calibration

Use the correct calibration for the conductive target material and installed sensor chain.

Set the operating gap

Follow the applicable transducer and machine procedure; the shipping dimensions do not define the sensing gap.

Review the approval selection

Option 00 does not request agency approvals. Verify the complete approved installation before use in a hazardous area.

05 / Reference basis and related portfolio

Lifecycle and supply

A current manufacturer lifecycle phase has not been confirmed. Request current support and replacement guidance using the complete 330104-00-04-90-02-00 identity. Apter Power availability is confirmed separately in the quotation.

Reference basis

Bently Nevada 3300 XL 8 mm Proximity Transducer System, 141194 Rev. AN.

Apter Power technical summary; not a manufacturer-issued manual. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Bently Nevada 3300/48-03-02-02-00

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Discuss your installed configuration

Send the full unit marking and connection details.

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