01 / Identity and job scope

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

>

330104 probe
Eddy-current sensing

>

Proximitor Sensor
Gap-related voltage

Applicability

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.

Hardware and configuration

The 330104 standard-mount design combines an 8 mm PPS sensing tip with a stainless-steel case and cable armor. For this order code, 00 selects zero unthreaded length, 04 selects a 40 mm overall case, and 90 selects a 9.0 m total length. The supplied shipping envelope is separate from the transducer cable-length code.

Planning basis

This Apter Power guide supports identification and engineering planning. Apply the complete manufacturer and machine-builder procedures for the actual installation.

02 / Configuration and interface readiness

Item	Configuration relationship
Product family	3300 XL 8 mm
Probe design	330104 standard mount, armored
Sensing tip diameter	8 mm
Case thread	M10 x 1
Unthreaded length	0 mm, option 00
Overall case length	40 mm, option 04
Total length	9.0 m, option 90

Technical 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.

What does the 90 option in 330104-00-04-90-02-00 specify?

It selects a total length of 9.0 m. Match the complete transducer chain to the required electrical system length.

Which connector and cable are selected for 330104-00-04-90-02-00?

Option 02 selects standard cable and a miniature coaxial ClickLoc connector without a factory-installed connector protector.

03 / Installation and connection 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.

Installation context

Option 02 specifies standard cable and a miniature coaxial ClickLoc connector without a factory-installed connector protector. ClickLoc connections are tightened by hand until they click; connector protection remains important in the installation. The final 00 is the agency-approval selection, so hazardous-area approval must not be inferred from the general product-family description.

How is the ClickLoc connection on 330104-00-04-90-02-00 tightened?

Tighten the connection by hand until it clicks. The locking design does not require installation tools.

Which target property affects calibration of 330104-00-04-90-02-00?

The conductive target material affects the measurement response. Standard Proximitor calibration uses AISI 4140 steel; another material requires an appropriate calibration.

04 / Functional acceptance planning

Application	Controlled review
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.

Does 330104-00-04-90-02-00 include an agency-approval selection?

The final 00 selects agency approvals not required. Do not treat general family certifications as selected approvals for this order code.

Can 330104-00-04-90-02-00 alone produce the complete system output?

The probe forms part of a transducer chain with a compatible Proximitor Sensor and any required extension cable. System performance and gap voltage belong to that complete arrangement.

Release boundary

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

Record
Keep the original configuration

>

Test
Observe controlled response

>

Release
Authorize normal operation

05 / Technical handover and support

Retained information

Keep the complete 330104-00-04-90-02-00 marking, host identity, connection photographs, configuration backup and controlled-test results in the service record.

Support planning

Confirm current support and replacement guidance with Bently Nevada for the installed identity and configuration. Apter Power availability and dispatch are separate quotation matters.

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 3300/52-01-00-00

Bently Nevada 3300/50-02-02-00-00

Bently Nevada 3300/48-04-02-01-00

Discuss your installed configuration

Send the full unit marking and connection details.

sales13@apterpower.com | +86 18030235313