Bently Nevada 330104-01-08-50-01-CN

COMPLETE PRODUCT INFORMATION

Bently Nevada 330104-01-08-50-01-CN is an armored 3300 XL 8 mm proximity probe with an M10 x 1 thread and a 5 m standard lead. Its protected ClickLoc connection is intended for the matching 5 m Proximitor system used for non-contact shaft vibration and position measurements.

Selected execution

330104	XL 8 mm probe; M10 x 1; with armor
AA01 / BB08	Retained mechanical order-code execution
CC50	5.0 m total probe length; matching 5 m sensor only
DD01	Standard cable, ClickLoc and connector protector
CN	Country-specific approval option; inspect marking

Five-metre channel

Probe	Connection	Proximitor
5 m armored 330104 lead	Direct protected ClickLoc junction	Matching 5 m XL system

Five-metre direct channels

Connect the probe directly to the matching 5 m conditioner when the installed route supports the integral lead.

Radial shaft vibration

Monitor shaft motion on fluid-film-bearing machinery through the calibrated XL channel.

Axial or static position

Supply a non-contact target-distance signal to the selected conditioner and position monitor.

Armored cable routes

Use the armored probe execution where the planned route calls for mechanical cable protection and a protected junction.

System role

The probe converts changing conductive-target distance into the input for a separate Proximitor conditioning stage. The five-metre lead already provides the selected system electrical length. Mechanical armor, connector protection and the cable sealing option are independent features and must be read from the complete code.

Important Notice

Use the 5 m Proximitor without adding an extension to this 5 m probe. DD01 does not select FluidLoc cable. CN identifies an approval option; confirm the component marking and installed circuit requirements independently.

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Cable and component check

Probe length	CC50 = 5.0 m
Connector	DD01 = miniature coaxial ClickLoc with protector, standard cable
Protector	Included by DD01
Approval	CN = China-specific approval option; verify marking
Probe resistance	8.73 +/-0.50 ohm; center to outer conductor
Cable	75 ohm triaxial; FEP insulated

Construction and case support

Tip material	Polyphenylene sulfide (PPS)
Case material	AISI 303 or 304 stainless steel
Case torque, nominal	11.2 N m; standard forward mounting
Case torque, maximum	33.9 N m; standard forward mounting
First three threads	7.5 N m recommended; 22.6 N m maximum

Connection and temperature

Thread engagement	15 mm; matching internal fit class
Bend radius	25.4 mm
Connector limit	0.565 N m
XL connector practice	Finger tight
Probe temperature	-52 to +177 deg C; operating and storage

Channel and conditioner

Linear range	2 mm; approximately 0.25 to 2.3 mm
Radial gap	-9 VDC; approximately 1.27 mm
Scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz; +0 / -3 dB
Output resistance	50 ohm
Maximum current	12 mA
Sensor operation	-52 to +100 deg C
Sensor storage	-52 to +105 deg C

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01. Use the matching 5 m Proximitor only; adding an extension changes the electrical length of this 5 m probe arrangement.

02. Check the M10 x 1 internal fit and keep thread engagement within 15 mm; do not force a binding mount.

03. Select torque for the actual case support: 11.2 N m recommended normally, or 7.5 N m when supported at the first three threads.

04. Support the armored lead and maintain the 25.4 mm minimum bend radius without steady pull at the connector.

05. Join two XL gold ClickLocs finger tight; the 0.565 N m connector maximum is distinct from case torque.

06. Seat the supplied connector protector appropriately; standard DD01 cable must not be treated as a FluidLoc execution.

07. Check CN markings and the installed approval circuit, and assess probe and Proximitor temperatures at their separate locations.

08. Verify target calibration, applicable gap setting and complete-channel response before releasing the measurement under the site procedure.

Five-metre selection rule

CC50 is a five-metre probe designed for the five-metre Proximitor only. Connect the integral lead to the matching conditioner without adding an extension. Do not apply a one-metre-probe-plus-extension recipe to this selected five-metre execution.

CN approval context

108M1756 Rev. AV lists CN for the 330104 family. CN covers China-specific hazardous-area requirements, including NEPSI/CCC and ATEX/IECEx markings as applicable. Read the supplied marking, certificate and installed circuit requirements; the country option alone is not a universal approval for every location.

Pressure-seal distinction

The probe uses a Viton O-ring and is not pressure tested before shipment. Continuous exposure below -34 deg C can cause premature pressure-seal failure. Assess containment and any required pressure test through the application procedure; the electrical operating range does not establish a tested pressure rating.

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Can an extension be added to 330104-01-08-50-01-CN to reach a more distant conditioner?

The 5 m probe is designed for the 5 m Proximitor only. Its integral lead already provides the selected electrical length; adding an extension is not the documented arrangement.

Which features distinguish armor and DD01 on 330104-01-08-50-01-CN?

330104 identifies the armored metric probe execution. DD01 separately selects standard cable, a miniature coaxial ClickLoc connector and its protector; it does not select FluidLoc.

What is the isolated probe resistance for 330104-01-08-50-01-CN?

The 5 m probe nominal DC resistance is 8.73 +/-0.50 ohm, measured between center and outer conductors. Isolate the probe from the powered system before performing the component check.

What mounting checks apply to 330104-01-08-50-01-CN?

Verify the selected AA01 / BB08 mechanical execution and the mating M10 x 1 fit. The maximum documented thread engagement is 15 mm; excessive engagement can cause binding.

Related proximity-probe selections

Bently Nevada 330103-03-06-05-02-00	Related XL probe; compare full execution
Bently Nevada 330106-05-30-05-02-CN	Related XL probe; compare full execution
Bently Nevada 330104-00-24-10-02-00	Related XL probe; compare full execution

Functional test boundary

The isolated component test checks the probe resistance. The assembled channel test checks target calibration, gap and measurement response. Preserve both results and the direct five-metre arrangement in the service record.

Three document purposes

Technical Reference	Execution, materials, mounting and performance
Installation & Commissioning Guide	Direct-channel installation and acceptance
Complete Product Information	Product, applications, precautions and questions

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What approval selection does CN identify on 330104-01-08-50-01-CN?

CN is the China-specific approval ordering option. Check the actual component markings and the applicable installed circuit requirements before use.

Is the connector protector included with 330104-01-08-50-01-CN?

Yes. DD01 includes a protector with the standard ClickLoc cable execution. Confirm that the supplied protector is present and properly fitted when inspecting the received probe.

Which nominal accuracy row applies to the five-metre channel using 330104-01-08-50-01-CN?

For the standard 5 m XL channel at 0 to +45 deg C, ISF is within +/-5% and DSL is below +/-0.025 mm. These values require the documented complete-system components, target and reference conditions.

Why is the temperature check for 330104-01-08-50-01-CN separate from its Proximitor?

The standard probe operates and stores at -52 to +177 deg C. The Proximitor operates to +100 deg C and stores to +105 deg C, so a probe location within its rating can still be unsuitable for the conditioner.

Related proximity-probe selections

Bently Nevada 330103-00-14-10-01-00	Related XL probe; compare full execution
Bently Nevada 330103-00-03-05-02-00	Related XL probe; compare full execution
Bently Nevada 330103-00-04-05-02-05	Related XL probe; compare full execution

Related model scope

Related products have their own complete mounting, cable, electrical-length and approval selections. Portfolio links do not establish a replacement match.

Manufacturer references

3300 XL 8 mm Proximity Transducer System, 141194 Rev. AN: resistance and reference conditions p. 4; performance pp. 5-6; construction and torque p. 7; engagement p. 8; temperatures p. 9; metric probe family/options pp. 13-14. Approvals Quick Reference Guide 108M1756 Rev. AV: CN explanation p. 10 and 330104 applicability p. 26. Field checks follow the installed machine procedure.

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