

Product identity and trade record

330104-00-10-10-02-00

3300 XL 8 mm Metric Armored Proximity Probe

Bently Nevada 330104-00-10-10-02-00 is a 3300 XL 8 mm metric armored proximity probe for non-contact radial vibration and position measurement in a matched 3300 XL transducer system.

PRODUCT & TRADE RECORD	DETAIL
Manufacturer	Bently Nevada
Model	330104-00-10-10-02-00
Country of origin	USA
HS code	8537101190
Shipping origin	Xiamen, Fujian, China
Availability	Stock 1 3-day lead time Fast shipping

Measured quantity and system role

The 3300 XL 8 mm probe provides a non-contact eddy-current signal for radial vibration and shaft-position measurement in a matched 3300 XL transducer system.

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Technical specifications

Model-specific configuration and manufacturer-published performance values for 330104-00-10-10-02-00; options are decoded against Datasheet 141194 Rev. AM.

PARAMETER	VALUE
Product type	3300 XL 8 mm Proximity Probe
Code family	330104-AA-BB-CC-DD-EE
Construction	M10 x 1 metric thread, with armor
Unthreaded length AA=00	0 mm; metric options in 10 mm increments
Overall case length BB=10	100 mm
Total probe length CC=10	1.0 m (3.3 ft)
Connector/cable DD=02	Miniature coaxial ClickLoc connector, standard cable
Agency approval EE=00	Not required
Probe tip diameter	8.0 mm (0.31 in)
Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 303 or 304 stainless steel
Standard cable	75 ohm triaxial FEP-insulated cable
Operating/storage temperature	-52 to +177 degC (-62 to +350 degF)
Linear range	2 mm (80 mils), approximately 0.25 to 2.3 mm gap
Recommended radial gap	-9 Vdc, approximately 1.27 mm (50 mils)
Incremental scale factor	7.87 V/mm (200 mV/mil) +/-5% for standard 1 m or 5 m system
Deviation from straight line	Less than +/-0.025 mm (+/-1 mil) for standard 1 m or 5 m system
Frequency response	0 to 10 kHz, +0/-3 dB with up to 305 m field wiring
Minimum target size	15.2 mm (0.6 in) diameter flat target
Thread engagement limit	M10 x 1 maximum 15 mm
Connector tightening	Finger tight for two 3300 XL gold ClickLoc connectors
Compatible sensor input	3300 XL Proximitor Sensor with matched extension cable

Applications and system role

Radial vibration measurement

Supports matched 3300 XL non-contact vibration and position measurement.

Axial position monitoring

Provides a conditioned eddy-current signal for an engineered shaft-position channel.

Transducer loop renewal

Restores the probe, cable and Proximity Sensor arrangement as a matched system.

Protected field installation

Supports documented cable routing, connector protection and alarm verification.

Signal path and compatible elements

SYSTEM ELEMENT	MODEL-SPECIFIC DETAIL
Signal source	Non-contact eddy-current displacement signal from the 8 mm probe tip.
Mechanical interface	M10 x 1 metric armored probe, 100 mm case, 0 mm unthreaded option.
Cable arrangement	1.0 m standard cable with ClickLoc connector; match the selected extension cable.
Electrical acceptance	Confirm -9 Vdc gap, 7.87 V/mm scale factor, polarity and dynamic response.

Engineering note

Install 330104-00-10-10-02-00 only as the complete 3300 XL 8 mm system shown in the approved drawing. Match the M10 x 1 case thread, 100 mm case execution, 1.0 m probe length, ClickLoc connector and standard-cable option; set the documented radial gap and verify bias, polarity and dynamic response before service.

Engineer questions

QUESTION	ENGINEERING ANSWER
How should 330104-00-10-10-02-00 be mounted when the host uses the metric option?	330104-00-10-10-02-00 uses the 330104 M10 x 1 armored execution. Keep thread engagement at or below 15 mm, confirm the 100 mm case and preserve the documented target clearance (141194 Rev. AM, pp. 8, 14, 35).
How does 330104-00-10-10-02-00 decode its 00-10-10-02-00 options?	For 330104-00-10-10-02-00, AA=00 is 0 mm unthreaded length, BB=10 is a 100 mm case, CC=10 is a 1.0 m probe, DD=02 is miniature ClickLoc with standard cable, and EE=00 means no agency approval option (141194 Rev. AM, pp. 14, 35).
Which system-length decision is required before installing 330104-00-10-10-02-00?	The 330104-00-10-10-02-00 1.0 m probe must be paired with the extension cable so probe plus extension equals the selected 3300 XL Proximator Sensor total length; a 1 m system is probe-only (141194 Rev. AM, pp. 1, 18-19).
What radial gap decision applies to 330104-00-10-10-02-00 during commissioning?	Gap 330104-00-10-10-02-00 at approximately -9 Vdc, about 1.27 mm (50 mils), then verify the 0.25-2.3 mm linear region and the 2 mm nominal range (141194 Rev. AM, p. 5).
Which target and shaft-clearance checks are required for 330104-00-10-10-02-00?	Use the AISI 4140 target basis for published accuracy, provide at least a 15.2 mm flat target, and check shaft diameter and probe-tip separation to control cross-talk (141194 Rev. AM, pp. 4, 6).
What electrical acceptance values should be recorded for 330104-00-10-10-02-00?	Record 7.87 V/mm (200 mV/mil) +/-5% for a standard 1 m system, less than +/-0.025 mm DSL, and 0-10 kHz response at +0/-3 dB with up to 305 m field wiring (141194 Rev. AM, pp. 5-6).
How should the ClickLoc interface on 330104-00-10-10-02-00 be protected?	Keep both gold ClickLoc faces clean and finger-tight; use approved connector protectors for environmental protection and route the 1.0 m standard cable above its minimum bend radius (141194 Rev. AM, pp. 2, 7-8, 20).
When is 330104-00-10-10-02-00 not the correct temperature/approval choice?	330104-00-10-10-02-00 is a standard probe with EE=00 and a +177 °C probe/cable limit. Select an ETR probe/cable or approval option only when the installation documentation requires it; do not infer ETR or hazardous-area approval from this code (141194 Rev. AM, pp. 9, 14, 16).

Related products and support

Related Apter Power pages are navigation aids, not evidence for the technical values in this document.

BRAND + MODEL	PRODUCT ROLE	APTER POWER PAGE
Bently Nevada 330104-00-06-10-02-00	3300 XL 8 mm metric armored proximity probe	Open Bently Nevada 330104-00-06-10-02-00 page
Bently Nevada 330104-00-10-10-02-05	3300 XL 8 mm metric armored probe with approvals	Open Bently Nevada 330104-00-10-10-02-05 page
Bently Nevada 330104-00-15-10-02-00	3300 XL 8 mm metric armored probe, 150 mm case	Open Bently Nevada 330104-00-15-10-02-00 page
Bently Nevada 330104-01-05-10-02-00	3300 XL 8 mm metric armored probe, alternate thread	Open Bently Nevada 330104-01-05-10-02-00 page
Bently Nevada 330103-00-06-10-02-00	3300 XL 8 mm metric unarmored proximity probe	Open Bently Nevada 330103-00-06-10-02-00 page
Bently Nevada 330103-00-10-10-02-00	3300 XL 8 mm metric unarmored probe, 1 m	Open Bently Nevada 330103-00-10-10-02-00 page
Bently Nevada 330101-00-08-10-02-00	3300 XL 8 mm standard proximity probe	Open Bently Nevada 330101-00-08-10-02-00 page
Bently Nevada 330103-00-16-05-11-05	3300 XL 8 mm configured proximity probe	Open Bently Nevada 330103-00-16-05-11-05 page

Manufacturer source identifiers

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AM (Baker Hughes). See the manufacturer publication for complete ordering, installation and performance details. This workbook is an Apter Power field aid; manufacturer documents control final installation decisions.

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