

BENTLY NEVADA

330104-15-23-50-02-00

Armored Proximity Probe

PRODUCT ROLE

Bently Nevada 330104-15-23-50-02-00 is an armored M10 x 1 3300 XL 8 mm proximity probe with a 5.0 m standard lead and miniature ClickLoc connector. The 150 mm unthreaded section and 230 mm case distinguish this metric execution from adjacent 330104 variants.

01 3300 XL 8 mm non-contacting eddy-current probe

02 M10 x 1 stainless-steel armored case

03 150 mm unthreaded / 230 mm case

04 5.0 m standard lead for a 5 m Proximitior

Technical Data

Parameters apply to the named order code; matched-system values are identified in their labels.

PARAMETER	VALUE
Probe family	3300 XL 8 mm
Base order code	330104
Mounting thread	M10 x 1
Lead armor	Stainless steel
Unthreaded section	150 mm
Overall case length option	230 mm
Total probe length	5.0 m
Matched Proximator system length	5 m
Cable type	75 ohm triaxial, FEP insulated
Connector	Miniature coaxial ClickLoc

PARAMETER	VALUE
Connector protector	Not included
Agency approval option	00 - not required
Probe tip material	Polyphenylene sulfide (PPS)
Case material	AISI 303 or 304 stainless steel
Minimum cable bend radius	25.4 mm
Maximum connector torque	0.565 N m
Recommended probe case torque	11.2 N m
Probe operating and storage range	-52 to +177 C
System linear range	2.0 mm
Recommended radial-vibration gap	1.27 mm, approximately -9 Vdc

ENGINEERING BOUNDARY

The complete order code controls case geometry, lead length, connector and approval option. Keep the probe matched to the documented 3300 XL 8 mm Proximator system and verify gap and monitor response after installation.

Integration and Applications

Deep M10 probe position

Retain the 150 mm unthreaded section and 230 mm case where that geometry is specified.

Long-lead radial sensing

Pair the 5.0 m armored lead with a matched 5 m 3300 XL 8 mm Proximator system.

Metric case replacement

Check the M10 x 1 mounting interface before replacing a nearby 13-20 execution.

Controlled gap acceptance

Set the documented radial gap and prove voltage and channel response after installation.

MATCHED SENSING CHAIN



INSTALLATION AND COMMISSIONING NOTE

Confirm the 150 mm/230 mm mechanical execution before replacement; the 13-20 sibling is not the same case geometry. Keep the 5 m probe on a matched 5 m transducer system and check gap and response after a controlled restart.

Precautions and Engineering FAQ

CONTROLLED REPLACEMENT CHECKS

- 1 Confirm the 330104-15-23-50-02-00 marking and the 150 mm unthreaded / 230 mm case geometry.
- 2 Put the machine and affected monitor channel in the approved maintenance state.
- 3 Record the original M10 x 1 mounting depth and 5.0 m lead route.
- 4 Inspect the stainless-steel armor, tip and miniature ClickLoc connector.
- 5 Keep M10 x 1 engagement within the documented limit and observe case torque.
- 6 Route the 5.0 m cable without reducing its 25.4 mm minimum bend radius.
- 7 Reconnect the matched 5 m Proximitor system and check the option-02 joint.
- 8 Set the documented gap and prove the affected monitor response under control.

MODEL-SPECIFIC DECISIONS

Can the 15-23 execution replace a 13-20 case without a fit check?

No. This code selects a 150 mm unthreaded section and 230 mm case, rather than the sibling's 130 mm and 200 mm.

What does its 50 length option require at the sensor end?

It is a 5.0 m probe intended for a 5 m 3300 XL 8 mm Proximitor system.

Is the 05 approval package present?

No. This part ends in 00, the option without added agency approvals.

Where should radial-vibration gapping begin?

The recommended matched-system gap is about 1.27 mm, producing approximately -9 Vdc under the stated conditions.

Which cable construction comes with 330104-15-23-50-02-00?

Option 02 provides standard 75 ohm triaxial, FEP-insulated cable with a miniature ClickLoc connector.

How is the armored lead protected during routing?

The armor is flexible stainless steel with an FEP outer jacket, and the cable bend radius must stay at or above 25.4 mm.

What temperature range applies to the standard probe?

The standard 3300 XL 8 mm probe operating and storage range is -52 to +177 C.

What torque is recommended for the forward-mounted probe case?

The listed recommended case torque is 11.2 N m for a standard forward-mounted probe, subject to the documented thread engagement limit.

Source and Related Portfolio

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04 Bently Nevada 330101-00-35-10-01-05	05 Bently Nevada 330104-06-14-10-02-00	06 Bently Nevada 330101-00-12-10-02-05
07 Bently Nevada 330101-00-39-10-02-05	08 Bently Nevada 330105-02-12-10-12-ru	09 Bently Nevada 330130-040-10-00

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



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