

MODEL-SPECIFIC TECHNICAL DOSSIER

330104-13-20-50-02-00

Armored Proximity Probe

Bently Nevada 330104-13-20-50-02-00 is an armored M10 x 1 3300 XL 8 mm proximity probe with a 5.0 m standard cable and ClickLoc connector. Its configured metric case is used for non-contacting vibration or position measurement in a matched 5 m Proximitor system.

01 VERIFIED DETAIL

3300 XL 8 mm non-contacting eddy-current probe

02 VERIFIED DETAIL

M10 x 1 stainless-steel armored case

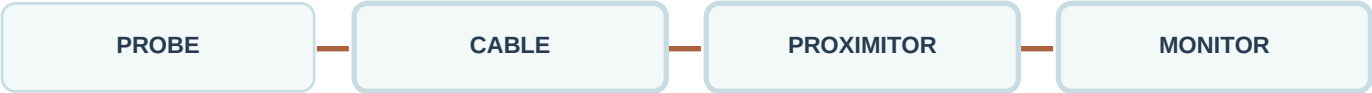
03 VERIFIED DETAIL

130 mm unthreaded / 200 mm case

04 VERIFIED DETAIL

5.0 m standard lead for a 5 m Proximitor

MATCHED MEASUREMENT CHAIN



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 Proximitor system and verify gap and monitor response after installation.

System Role and Interfaces

Bently Nevada 330104-13-20-50-02-00 is an armored M10 x 1 3300 XL 8 mm proximity probe with a 5.0 m standard cable and ClickLoc connector. Its configured metric case is used for non-contacting vibration or position measurement in a matched 5 m Proximitor system.

MATCHED SIGNAL PATH



INTERFACE / PURPOSE / CHECK

Mechanical mount	130 mm	Match the documented mounting and case code.
Probe cable	75 ohm triaxial FEP cable, ClickLoc connector and armored route	Preserve the specified lead and connector chain.
System pairing	3300 XL 8 mm Proximitor sensor matched to the selected system length	Use the correct total system length or 7200 series.
Measurement output	Non-contacting shaft displacement and vibration transducer input	Accept the loop by a controlled response test.

DOCUMENTED CHECKPOINT

Use the 5 m 3300 XL 8 mm Proximitor arrangement specified for this 50-length probe. Observe the M10 x 1 engagement limit, route the armored lead without a bend tighter than 25.4 mm and inspect the ClickLoc joint before energization.

Technical Parameters

Order-code details and matched-system values are identified separately.

PARAMETER	DOCUMENTED VALUE	PARAMETER	DOCUMENTED VALUE
Probe family	3300 XL 8 mm	Connector protector	Not included
Base order code	330104	Agency approval option	00 - not required
Mounting thread	M10 x 1	Probe tip material	Polyphenylene sulfide (PPS)
Lead armor	Stainless steel	Case material	AISI 303 or 304 stainless steel
Unthreaded section	130 mm	Minimum cable bend radius	25.4 mm
Overall case length option	200 mm	Maximum connector torque	0.565 N m
Total probe length	5.0 m	Probe DC resistance	8.73 +/- 0.50 ohm at 5.0 m
Matched Proximator system length	5 m	System linear range	2.0 mm
Cable type	75 ohm triaxial, FEP insulated	System incremental scale factor	7.87 V/mm
Connector	Miniature coaxial ClickLoc	Maximum M10 x 1 thread engagement	15 mm

APPLICATION 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.

Applications and Acceptance

M10 radial-vibration point

Use the 130 mm unthreaded section at the documented radial probe location.

200 mm metric case fit

Check the 200 mm overall case and M10 x 1 mounting bore before installation.

Five-metre transducer loop

Keep the 5.0 m armored lead paired with the selected 5 m Proximitor sensor.

Probe-chain response test

Verify the ClickLoc joint, gap voltage and monitor response after a controlled restart.

ENGINEERING DECISIONS

Why is 330104-13-20-50-02-00 a metric probe?

The 330104 base designates an armored 3300 XL 8 mm probe with an M10 x 1 thread.

Which section does the 13 option describe?

It is the 130 mm unthreaded portion, not the cable length.

How long is its configured case?

Option 20 selects a 200 mm overall case length for this metric ordering structure.

What Proximitor length belongs with the 50 option?

The 5.0 m probe is intended for the 5 m 3300 XL 8 mm Proximitor system.

Further Technical Decisions

Does its ClickLoc joint have a factory connector protector?
No. Connector option 02 supplies the miniature coaxial ClickLoc on standard cable without a protector.

How much M10 x 1 thread may engage the mounting bore?
The stated maximum thread engagement is 15 mm; excessive engagement can bind the probe.

Which resistance helps check this 5 m probe lead?
The nominal center-to-outer probe resistance for a 5.0 m 3300 XL 8 mm probe is 8.73 +/- 0.50 ohm.

Which material protects the sensing tip?
The probe tip uses polyphenylene sulfide (PPS), with an AISI 303 or 304 stainless-steel case.

RELATED BENTLY NEVADA PRODUCT PAGES

- 01** Bently Nevada 330102-04-25-10-02-00
- 02** Bently Nevada 330910-00-07-05-02-05
- 03** Bently Nevada 330102-00-20-10-02-00
- 04** Bently Nevada 330101-00-60-10-02-05
- 05** Bently Nevada 330101-00-40-10-02-05
- 06** Bently Nevada 330101-00-40-10-02-00
- 07** Bently Nevada 330101-00-40-05-02-00
- 08** Bently Nevada 330101-00-30-10-02-05
- 09** Bently Nevada 330101-00-30-10-02-00

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



330104-13-20-50-02-00