

330104-13-20-50-02-00

Armored Proximity Probe

PRODUCT ROLE

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

3300 XL 8 mm non-contacting eddy-current probe
- 02

M10 x 1 stainless-steel armored case
- 03

130 mm unthreaded / 200 mm case
- 04

5.0 m standard lead for a 5 m Proximitor

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	130 mm
Overall case length option	200 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
Probe DC resistance	8.73 +/- 0.50 ohm at 5.0 m
System linear range	2.0 mm
System incremental scale factor	7.87 V/mm
Maximum M10 x 1 thread engagement	15 mm

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

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.

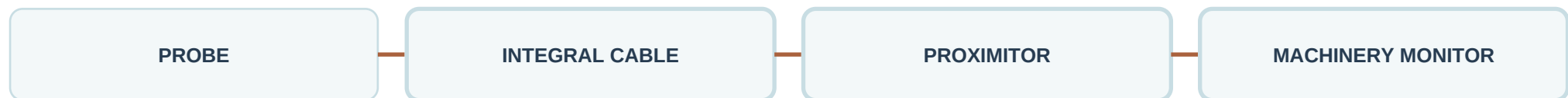
Five-metre transducer loop

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.

MATCHED SENSING CHAIN



INSTALLATION AND COMMISSIONING NOTE

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.

Precautions and Engineering FAQ

CONTROLLED REPLACEMENT CHECKS

- 1 Confirm the 330104-13-20-50-02-00 label, 130 mm unthreaded section and 200 mm case.
- 2 Place the monitored machine and protection channel in the approved maintenance state.
- 3 Record the M10 x 1 mounting position, 5.0 m route and mating system components.
- 4 Inspect the armored lead, tip and miniature ClickLoc joint for damage.
- 5 Observe the 15 mm maximum M10 x 1 engagement and specified case torque.
- 6 Keep the standard cable bend radius at or above 25.4 mm.
- 7 Restore the matching 5 m Proximator and confirm the option-02 connection.
- 8 Set the documented gap and verify the controlled monitor-channel response.

MODEL-SPECIFIC 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.

How long is its configured case?

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

Does its ClickLoc joint have a factory connector protector?

No. Connector option 02 supplies the miniature coaxial ClickLoc on standard cable without a protector.

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 section does the 13 option describe?

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

What Proximator length belongs with the 50 option?

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

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 material protects the sensing tip?

The probe tip uses polyphenylene sulfide (PPS), with an AISI 303 or 304 stainless-steel case.

Source and Related Portfolio

RELATED BENTLY NEVADA PRODUCT PAGES

01 Bently Nevada 330130-035-00-05	02 Bently Nevada 330130-080-13-05	03 Bently Nevada 330130-046-00-06
04 Bently Nevada 330703-000-050-10-02-00	05 Bently Nevada 330703-000-060-10-02-00	06 Bently Nevada 330104-00-04-50-02-00
07 Bently Nevada 330130-080-12-05	08 Bently Nevada 330730-040-00-00	09 Bently Nevada 330104-01-05-10-02-00

MANUFACTURER SOURCE RECORD

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

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