

330173-00-04-10-02-00

3300 5 mm Proximity Probe

Bently Nevada 330173-00-04-10-02-00 is an unarmored M8 x 1 proximity probe with a 40 mm case and 1.0 m standard cable. It is used with a matched extension cable and Proximitor Sensor.

ENGINEERING QUICK REFERENCE

MODEL DETAIL	DOCUMENTED VALUE
Base model	330173
Mounting thread	M8 x 1
Armor	Without armor
Unthreaded length	0 mm
Overall case length	40 mm
Total probe length	1.0 m
Connector	Miniature coaxial ClickLoc

PRODUCT SNAPSHOT

BRAND
Bently Nevada

FAMILY
Bently Nevada 3300 5 mm

PART
330173-00-04-10-02-00

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE
+86 180 3023 5313

WEBSITE
www.apterpower.com



PRODUCT OVERVIEW

330173-00-04-10-02-00 provides non-contacting vibration or position measurement with a matched 5 mm probe system for a matched Bently Nevada 3300 5 mm Transducer System installation.

Exact article identity 330173-00-04-10-02-00

3300 5 mm Proximity Probe

Documented role: non-contacting vibration or position measurement with a matched 5 mm

Controlled installation, diagnostics and functional verification

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4 Bently Nevada 330901-05-45-05-11-05	5 Bently Nevada 330101-02-70-10-11-05	6 Bently Nevada 330101-00-40-10-01-00
7 Bently Nevada 330105-02-12-05-12-00	8 Bently Nevada 330103-00-22-50-12-00	9 Bently Nevada 330103-00-16-50-12-00

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented host position, mating hardware, wiring or cable route and approved configuration. Commissioning preserves that architecture and verifies controlled response.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Base model	330173	Probe tip diameter	5.2 mm
Mounting thread	M8 x 1	System linear range	2.0 mm
Armor	Without armor	Recommended gap	1.27 mm
Unthreaded length	0 mm	Incremental scale factor	7.87 V/mm
Overall case length	40 mm	System frequency response	0 to 10 kHz
Total probe length	1.0 m	1 m probe DC resistance	7.59 +/- 0.50 ohm
Connector	Miniature coaxial ClickLoc	Minimum flat target diameter	15.2 mm
Connector protector	Not included		

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TECHNICAL NOTE

Install 330173-00-04-10-02-00 only in the documented Bently Nevada 3300 5 mm Transducer System position. Preserve exact mating interfaces and the as-found record, then verify diagnostics and non-contacting vibration or position measurement with a matched 5 mm probe system under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Machinery-protection planned maintenance

Restores non-contacting vibration or position measurement with a matched 5 mm probe system in the documented monitoring architecture.

3300 5 mm Proximity Probe replacement

Uses exact 330173-00-04-10-02-00 identity instead of an adjacent order-code execution.

Monitoring-system refurbishment

Preserves the installed host position, mating interfaces, wiring and approved configuration.

Controlled recommissioning

Confirms diagnostics and the affected measurement or communication function before operation.

PRODUCT PRECAUTIONS

- 1
- Confirm the complete 330173-00-04-10-02-00 marking, product role and documented installation position.
- 2
- Place the machinery protection system and connected process in the approved maintenance state.
- 3
- Isolate power and field circuits, prove the safe state and apply ESD controls where required.
- 4
- Record every mating component, terminal, connector, shield, cable route and configuration assignment.
- 5
- Verify all manufacturer-documented mechanical and electrical values for this exact execution.
- 6
- Restore the matched host, interfaces, grounding, shielding and approved configuration.
- 7
- Energize under control and review rack, channel or transducer-loop diagnostics.
- 8
- Complete a controlled functional test of non-contacting vibration or position measurement with a matched 5 mm probe system before service release.

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ENGINEER FAQ

Q1 Which mounting thread does 330173 use?

An M8 x 1 case without armor.

Q2 What case length does 04 encode?

40 mm overall, with zero unthreaded length.

Q3 What is its probe-cable length?

The 10 code provides 1.0 m of standard cable.

Q4 Does connector option 02 include a protector?

No. It is the standard ClickLoc without a protector.

Q5 Does the 5 mm tip permit a tiny target?

The minimum flat target diameter remains 15.2 mm.

Q6 What resistance applies to a 1 m probe?

7.59 +/- 0.50 ohm from center to outer conductor.

Q7 Where is the recommended gap?

1.27 mm within the 2.0 mm linear system range.

Q8 What upper frequency is documented?

10 kHz at +0, -3 dB with up to 305 m of field wiring.

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SOURCE 3300 5 mm Transducer System Datasheet 172036 Rev. T | Baker Hughes / Bently Nevada manufacturer datasheet

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