

330173-00-05-10-12-00

3300 5 mm Metric Proximity Probe

Bently Nevada 330173-00-05-10-12-00 is a M8 x 1 unarmored 3300 5 mm metric proximity probe with a 1.0 m lead and Miniature coaxial FluidLoc connection. It senses shaft-to-bearing relative displacement in a matched proximity transducer system.

BRAND	Bently Nevada	FAMILY	Bently Nevada 3300 5 mm Proximity Transducer System
PART	330173-00-05-10-12-00	SYSTEM ROLE	Detects shaft-to-bearing relative movement without mechanical contact

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330173-00-05-10-12-00

MANUFACTURER SOURCE RECORD

3300 5 mm Proximity Transducer System Datasheet
Baker Hughes document 172036 Rev. T

Product Overview

SYSTEM FUNCTION

Bently Nevada 330173-00-05-10-12-00 is a M8 x 1 unarmored 3300 5 mm metric proximity probe with a 1.0 m lead and Miniature coaxial FluidLoc connection. It senses shaft-to-bearing relative displacement in a matched proximity transducer system.

FUNCTION 1

Detects shaft-to-bearing relative movement without mechanical contact

FUNCTION 2

Forms the field sensing element of the matched eddy-current loop

FUNCTION 3

Carries the probe signal through the specified service connection

FUNCTION 4

Supports static-position and vibration measurements on rotating machinery

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 3300 5 mm Proximity Transducer System
Primary interface	Detects shaft-to-bearing relative movement without mechanical contact
Engineering context	Use 330173-00-05-10-12-00 only with its documented host, interfaces and accessories; record the as-found arrangement and complete a controlled functional verification after installation.
Commissioning duty	Prove polarity, static position, dynamic response and alarm action before returning the channel to service.

TECHNICAL NOTE

Install 330173-00-05-10-12-00 only in the documented Bently Nevada 3300 5 mm Proximity Transducer System arrangement and record the exact connection and configuration before removal. Restore the approved settings, then verify diagnostics and functional response before release.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Country of origin	USA	Unthreaded length	0 mm
HS code	8537101190	Case length	50 mm
Complete order number	330173-00-05-10-12-00	Total lead length	1.0 m
Probe construction	Without armor	Frequency response	0 to 10 kHz, +0/-3 dB
Mounting thread	M8 x 1	Probe cable impedance	75 ohm

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
330104-06-12-10-02-00	armored probe	View 330104-06-12-10-02-00 page
330105-02-12-10-02-05	reverse-mount probe	View 330105-02-12-10-02-05 page
330106-05-30-10-02-05	reverse-mount probe	View 330106-05-30-10-02-05 page
330130-080-00-00	extension cable	View 330130-080-00-00 page
330180-50-00	Proximitör Sensor	View 330180-50-00 page
3500/25	Keyphasor module	View 3500/25 page
3500/40M	proximity monitor	View 3500/40M page
3500/42M	seismic monitor	View 3500/42M page

ENGINEERING BOUNDARY

Confirm the complete 330173-00-05-10-12-00 marking, installed host, hardware execution, terminals or connectors, wiring, grounding, configuration, accessories and controlled commissioning results.

Applications and Precautions

Common Applications

Radial shaft-vibration measurement

Measures shaft motion relative to the bearing housing in a matched proximity loop.

Machine shaft centerline observation

Supplies slow-roll and static-position information for the configured monitor.

Axial position monitoring

Provides the field sensing point for a documented thrust-position channel.

Probe replacement in a matched loop

Restores the exact mechanical and cable execution without changing system identity.

Product Precautions

- 1

Confirm the complete 330173-00-05-10-12-00 marking, M8 x 1 thread and 50 mm case execution.
- 2

Place the monitored machine and associated protection channel in the approved maintenance state.
- 3

Protect the 5.2 mm probe tip and keep the mounting thread free from burrs and contamination.
- 4

Route the 1.0 m unarmored probe lead without sharp bends, crushing or tensile loading.
- 5

Keep the Miniature coaxial FluidLoc connection clean, dry and finger-tight.
- 6

Confirm the installed extension cable and Proximitor Sensor match the approved total system length.
- 7

Set the static gap within the documented linear region while maintaining target clearance.
- 8

Prove polarity, static position, dynamic response and alarm action before returning the channel to service.

IMPORTANT NOTICE

Confirm the complete 330173-00-05-10-12-00 marking, installed host, hardware execution, terminals or connectors, wiring, grounding, configuration, accessories and controlled commissioning results.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	330173-00-05-10-12-00
Configuration	Set the static gap within the documented linear region while maintaining target clearance.
Functional release	Prove polarity, static position, dynamic response and alarm action before returning the channel to service.

Engineer FAQ

Q1 What identity details must be checked before 330173-00-05-10-12-00 is removed?

Confirm 330173-00-05-10-12-00, M8 x 1 host thread, 0 mm unthreaded length, 50 mm case execution, without armor, Miniature coaxial FluidLoc, extension cable, Proximitor Sensor, total system length, target material, wiring, shielding, grounding, monitor configuration, static gap and controlled response-test results before commissioning.

Q3 Which Bently Nevada 3300 5 mm Proximity Transducer System interfaces must be recorded for 330173-00-05-10-12-00?

The probe is fitted to the engineered M8 x 1 machine position and connected to the selected extension cable and Proximitor Sensor. Commissioning includes order-code, clearance, cable-route, total-system-length, static-gap and controlled response checks.

Q5 How should the installed configuration be restored after fitting 330173-00-05-10-12-00?

Confirm the installed extension cable and Proximitor Sensor match the approved total system length.

Q7 What replacement records should be retained for 330173-00-05-10-12-00?

Confirm the complete 330173-00-05-10-12-00 marking, M8 x 1 thread and 50 mm case execution. Keep the Miniature coaxial FluidLoc connection clean, dry and finger-tight.

Q2 How does 330173-00-05-10-12-00 perform its documented 3300 5 mm metric proximity probe role?

Detects shaft-to-bearing relative movement without mechanical contact. It senses shaft-to-bearing relative displacement in a matched proximity transducer system.

Q4 What isolation and ESD controls apply while handling 330173-00-05-10-12-00?

Place the monitored machine and associated protection channel in the approved maintenance state. Protect the 5.2 mm probe tip and keep the mounting thread free from burrs and contamination.

Q6 Which diagnostic evidence confirms that 330173-00-05-10-12-00 is recognized correctly?

Set the static gap within the documented linear region while maintaining target clearance.

Q8 What final acceptance test is required before 330173-00-05-10-12-00 returns to service?

Prove polarity, static position, dynamic response and alarm action before returning the channel to service.

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