

Product Dashboard

Bently Nevada 330173-00-03-10-02-00

Unarmored metric proximity probe for a 3300 5 mm transducer system. Its matched chain conditions noncontact shaft position and vibration measurements.

Four Documented Highlights

DOMAIN	EXACT-MODEL FACT
Product type	330173 metric M8 x 1 probe without armor.
Connector	Option 02: miniature coaxial ClickLoc with standard cable.
Construction	PPS tip; stainless-steel case; FEP-insulated triaxial cable.
System role	Used with a compatible 3300 XL extension cable and Proximitor Sensor.

Signal path

Machine target > 330173 probe > 3300 XL extension cable > 3300 XL Proximitor Sensor > monitoring channel

Related Products - Verify Before Substitution

Bently Nevada 330104-00-05-05-02-05	View product page
Bently Nevada 330104-08-14-10-02-05	View product page

Technical Capability Map

Probe-Level Characteristics

PARAMETER	SOURCE-BOUND VALUE
Metric case	M8 x 1, unarmored 330173 variant.
Tip and case	PPS tip; AISI 303 or 304 stainless-steel case.
Standard lead	75-ohm FEP-insulated triaxial cable with ClickLoc connector.
Probe temperature	-35 to +177 C; heed source warning below -34 C.

Matched-System Performance

PARAMETER	PUBLISHED CONDITION / VALUE
Linear range	2 mm; this is not the 5 mm family designation.
Nominal scale factor	7.87 V/mm under the manufacturer's stated conditions.
Frequency response	0 to 10 kHz, +0/-3 dB under specified field-wiring conditions.
Calibration target	AISI 4140 steel as the standard factory basis.

Do not mix ratings

Using XL components with a 3300 5 mm probe limits the complete chain to the non-XL 3300 performance specifications.

Integration and Use

System Integration

ELEMENT	REQUIRED MATCH / FUNCTION
Probe	330173-00-03-10-02-00; preserve full marking and the unarmored metric identity.
Extension cable	3300 XL type with compatible ClickLoc interface and approved system configuration.
Proximator Sensor	3300 XL unit configured for the intended target and monitor channel.
Machine target	Conductive target; compare material with factory calibration basis.

Documented Application Context

APPLICATION	ENGINEERING PURPOSE
Fluid-film bearing machinery	Noncontact vibration and position monitoring.
Static position	Target-gap-related system voltage under a controlled installation.
Dynamic vibration	Shaft movement signal for the configured monitoring channel.
Keyphasor / speed	Reference or speed measurement subject to application review.

Related Products - Verify Before Substitution

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Decisions and Precautions

Model-Specific Questions

QUESTION	DOCUMENTED ANSWER
What is 330173-00-03-10-02-00?	An unarmored M8 x 1 probe in the 3300 5 mm family.
Does 5 mm state its sensing range?	No. The matched system has a 2 mm linear range under stated conditions.
Does 330173-00-03-10-02-00 include armor?	No; the 330174 family is the armored metric variant.
What does option 02 specify?	A miniature coaxial ClickLoc connector with standard cable.

Controlled Release Sequence

CONTROL	FIELD CHECK
Identity and isolation	Record full marking and use plant-approved isolation.
Probe and target	Inspect tip, case, mounting and conductive target.
Cabling	Mate ClickLoc finger-tight and protect the connection.
Matched chain	Check extension cable, Proximito Sensor and calibration basis.
Acceptance	Record static output and authorized dynamic response.

Source, Portfolio and Contact

Verified manufacturer source

Bently Nevada 3300 5 mm Transducer System Datasheet, 172036 Rev. T. Product description, electrical and mechanical characteristics, connector description, and 330173 metric ordering code; pages 1-5 and 10-12.

Portfolio boundary

The related products below are different probe families or configurations. Their presence is for navigation only; any substitution requires documented engineering approval.

Related Products - Verify Before Substitution

Bently Nevada 330104-00-05-05-02-05	View product page
Bently Nevada 330104-08-14-10-02-05	View product page
Bently Nevada 330851-02-000-070-90-00-05	View product page

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