

Identity and System Role

330173-00-03-10-02-00

Unarmored M8 x 1 metric proximity probe in the 3300 5 mm transducer family. It is a sensing element, not a stand-alone calibrated measurement system.

Documented Part Identity

FIELD	MANUFACTURER-DOCUMENTED DETAIL
Base family	330173: metric M8 x 1 3300 5 mm probe without armor.
Connector option	02: miniature coaxial ClickLoc connector with standard cable.
Approval option	00: no additional multiple-approval option selected.
Probe construction	PPS tip; AISI 303 or 304 stainless-steel case; FEP-insulated triaxial cable.

System boundary

The published electrical performance belongs to a correctly combined probe, 3300 XL extension cable and 3300 XL Proximitor Sensor. Do not assign complete-system ratings to the probe alone.

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
Bently Nevada 330851-05-000-040-50-01-05	View product page

Manufacturer-Listed Measurement Uses

USE	ROLE OF THE MATCHED SYSTEM
Position	Provides a static shaft-position signal on fluid-film bearing machinery.
Vibration	Provides a dynamic shaft-vibration signal for the monitoring channel.
Keyphasor / speed	Supports reference and speed measurements when the application is engineered for them.

Sensing and Signal Path

Matched Measurement Chain

STAGE	FUNCTION AND CHECK
330173 probe	Noncontact sensing at a conductive machine target; confirm unarmored metric identity.
3300 XL extension cable	Connect the probe to the Proximator Sensor with a compatible ClickLoc interface.
3300 XL Proximator Sensor	Conditions the signal and provides an output voltage proportional to target gap.
Monitoring channel	Uses static position, dynamic vibration, Keyphasor or speed signal as engineered.

Published System Characteristics

PARAMETER	VALUE / SCOPE
Linear measurement range	2 mm for the matched transducer system; 5 mm names the probe family, not this range.
Recommended gap	1.27 mm under the manufacturer's stated test conditions.
Scale factor	7.87 V/mm nominal for the matched system under stated conditions.
Frequency response	0 to 10 kHz, +0/-3 dB under the manufacturer's specified field-wiring conditions.
Standard calibration	Factory Proximator Sensor calibration is to AISI 4140 steel unless another target is ordered.

Interchangeability limit

3300 XL components may be interchanged within the documented system, but using XL components with a 3300 5 mm probe limits performance to the non-XL 3300 system specifications.

Construction and Service Limits

Probe and Connection

ITEM	DOCUMENTED CHARACTERISTIC
Probe tip	Polyphenylene sulfide (PPS) with TipLoc molding.
Case	AISI 303 or 304 stainless steel; M8 x 1 metric thread.
Probe lead	FEP-insulated, 75-ohm triaxial standard cable; no armor on the 330173 base model.
Connector	Gold-plated ClickLoc connection; finger-tighten until it clicks.
Probe temperature	-35 to +177 C; the source warns about pressure-seal failure below -34 C.

Electrical Basis - Complete System

ITEM	CONDITION / VALUE
Sensor supply	-17.5 to -26 Vdc; 12 mA maximum consumption.
Output resistance	50 ohms.
Target reference	AISI 4140 steel for standard factory calibration.

Connection protection

The manufacturer recommends connector protectors for environmental protection. Check the selected connector configuration before assuming a protector is supplied.

Decisions, Sources and Contact

Exact-Model Engineering Decisions

QUESTION	DOCUMENTED ANSWER
Can this probe run alone?	No. The stated performance is for the matched probe, extension cable and Proximitior Sensor.
Does 5 mm mean sensing range?	No. The matched-system linear range is 2 mm under the source conditions.
Is armor included?	No. 330173 is the unarmored metric variant.
Is option 02 FluidLoc?	No. Option 02 is standard cable with miniature coaxial ClickLoc connector.

Manufacturer source record

Bently Nevada 3300 5 mm Transducer System Datasheet, 172036 Rev. T. Identity, system description, specifications and metric ordering options; pages 1-5 and 10-12.

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