

330101-00-08-05-02-00

3300 XL 8 mm Proximity Probe

Bently Nevada 330101-00-08-05-02-00 is an unarmored, 3/8-24 UNF threaded 3300 XL 8 mm proximity probe with a 0.8 in fully threaded case, 0.5 m standard cable and ClickLoc connector. In a matched transducer system it supports shaft position, vibration, Keyphasor reference and speed measurement.

BRAND	Bently Nevada	PRODUCT	3300 XL 8 mm Proximity Probe
PART	330101-00-08-05-02-00	ORIGIN	USA
THREAD	3/8-24 UNF-2A	TOTAL LENGTH	0.5 m (1.6 ft)
HS CODE	8537101190	SHIP FROM	Xiamen, Fujian, China

MANUFACTURER SOURCE RECORD

3300 XL 8 mm Proximity Transducer System Datasheet
Baker Hughes / Bently Nevada publication 141194 Rev. AM

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Product Overview

SYSTEM FUNCTION

The probe forms the sensing end of a matched 3300 XL 8 mm eddy-current loop. It detects conductive shaft distance without contact and supports static position and dynamic vibration values.

ORDER IDENTITY

330101 base probe: standard forward mount, 3/8-24 UNF, without armor.

COMPACT CASE

Option 00 / 08 provides a fully threaded 0.8 in overall case.

INTEGRAL LEAD

Option 05 provides a 0.5 m standard FEP-insulated triaxial cable.

FIELD CONNECTION

Option 02 provides a miniature coaxial ClickLoc connector without protector.

Configuration Record

ORDER SEGMENT	VERIFIED VALUE	FUNCTION
330101	3300 XL 8 mm probe	3/8-24 UNF, without armor
00	0.0 in	Unthreaded length
08	0.8 in	Overall case length
05	0.5 m (1.6 ft)	Total probe length
02	ClickLoc, standard cable	No connector protector
00	Not required	Agency approval option

TECHNICAL NOTE

Match the probe, extension cable and Proximitor Sensor total length before setting the gap and accepting the connected monitor channel.

Technical Data and Matching

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Probe tip	8.0 mm (0.31 in)	Thread	3/8-24 UNF-2A
Tip material	PPS	Case material	AISI 303/304 SST
Probe cable	75 Ohm triax, FEP	Cable OD	3.68 mm maximum
Probe DC resistance	7.45 +/- 0.50 Ohm	Bend radius	25.4 mm minimum
Probe temperature	-52 to +177 deg C	Thread engagement	0.563 in maximum
Recommended torque	11.2 N m (100 in lbf)	Connector assembly	Finger-tight ClickLoc

Matched-System Performance

MATCHED-SYSTEM ITEM	PUBLISHED BASIS
Linear range	2.0 mm (80 mil), approximately 0.25 to 2.3 mm from target
Recommended radial gap	Approximately 1.27 mm (50 mil), approximately -9 V DC
Incremental scale factor	7.87 V/mm (200 mV/mil) +/- 5% for standard 5 m or 1 m system
Frequency response	0 to 10 kHz, +0/-3 dB, subject to field-wiring length
Target basis	AISI 4140 steel; 15.2 mm minimum flat target diameter
Shaft diameter	50.8 mm minimum; 76.2 mm recommended

MECHANICAL

0.563 in maximum thread engagement; 25.4 mm minimum cable bend radius.

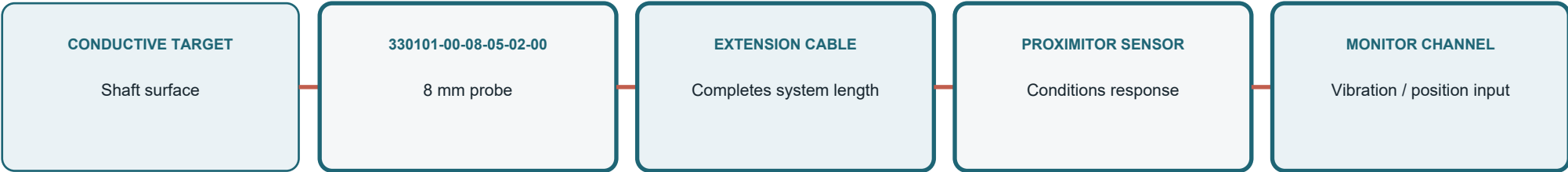
ELECTRICAL

Probe plus extension-cable length equals the Proximitor Sensor total length.

MEASUREMENT

Gap and response are accepted on the documented target and monitor channel.

Signal Path



Applications and Precautions

RADIAL SHAFT VIBRATION

Non-contact dynamic displacement measurement on fluid-film bearing machines.

AXIAL SHAFT POSITION

Static shaft-position measurement with documented target and mounting geometry.

KEYPHASOR REFERENCE

Phase-reference sensing for compatible machinery-monitoring channels.

SPEED MEASUREMENT

Speed-related measurement when manufacturer application guidance is followed.

Controlled Installation Checks

1 Verify the complete ordering code and physical marking before installation.

2 Do not claim hazardous-area approval for the final 00 option.

3 Limit 3/8-24 thread engagement to 0.563 in and use the published torque limits.

4 Keep the probe cable bend radius at or above 25.4 mm and prevent pull or abrasion damage.

5 Match probe plus extension-cable length to the selected Proximitor Sensor total length.

6 Confirm target material, target size, shaft diameter, tip spacing and final gap before release.

7 Respect the -52 to +177 deg C standard probe range.

8 Safely contain process media; standard probes are not pressure-tested before shipment.

FAQ and Related Product Record

QUESTION	MODEL-SPECIFIC ANSWER
What is the exact configuration?	An unarmored standard forward-mount 8 mm probe with 3/8-24 UNF threads, a fully threaded 0.8 in case, 0.5 m standard cable and ClickLoc connector.
How is the code decoded?	00 / 08 / 05 / 02 / 00 specifies 0.0 in unthreaded length, 0.8 in case, 0.5 m lead, standard-cable ClickLoc without protector and approval not required.
How is the system length matched?	The 0.5 m probe lead plus extension cable must equal the total length configured for the matching Proximitor Sensor.
What is the recommended gap?	About 1.27 mm (50 mil), approximately -9 V DC, on the published AISI 4140 steel basis.
What target size applies?	The flat target diameter is at least 15.2 mm; the shaft is at least 50.8 mm, with 76.2 mm recommended.
How is the connector assembled?	Join compatible gold-plated ClickLoc connectors finger-tight until the locking action clicks.
What routing limit applies?	Maintain a minimum 25.4 mm cable bend radius and protect the FEP-insulated lead.
What approval is included?	The final 00 option means agency approval is not required; installation classification must still be checked.

Related 3300 XL Products

MODEL	RELATION TO THIS PRODUCT	APTER POWER PAGE
330102-00-40-10-01-05	3300 XL 8 mm probe configuration	Open 330102-00-40-10-01-05
330102-00-40-05-01-00	3300 XL 8 mm probe configuration	Open 330102-00-40-05-01-00
330102-00-80-10-11-05	3300 XL 8 mm probe configuration	Open 330102-00-80-10-11-05
330103-00-12-10-01-00	3300 XL 8 mm probe configuration	Open 330103-00-12-10-01-00
330103-00-10-10-12-05	3300 XL 8 mm probe configuration	Open 330103-00-10-10-12-05
330103-12-25-10-01-00	3300 XL 8 mm probe configuration	Open 330103-12-25-10-01-00
330104-00-22-10-02-00	3300 XL 8 mm probe configuration	Open 330104-00-22-10-02-00
330180-90-00	Matched 3300 XL Proximitor Sensor family	Open 330180-90-00

Acceptance Evidence

IDENTITY

Record 330101-00-08-05-02-00 from the physical marking and retain the final 00 approval suffix.

INSTALLATION

Verify thread engagement, case clearance, cable route, system-length matching and target geometry.

FUNCTIONAL PROOF

Record gap voltage, channel response and the controlled protection-path test before service release.

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