

INDUSTRIAL MACHINERY MONITORING PRODUCT

330101-00-08-05-02-00

3300 XL 8 mm Proximity Probe

Bently Nevada 330101-00-08-05-02-00 is an unarmored 3300 XL 8 mm proximity probe with a 3/8-24 UNF threaded 0.8 in case, 0.5 m standard cable and miniature coaxial ClickLoc connector.

IDENTITY	VERIFIED VALUE	TRADE FIELD	VERIFIED VALUE
Manufacturer	Bently Nevada	Country of origin	USA
Product	3300 XL 8 mm Proximity Probe	HS code	8537101190
Part number	330101-00-08-05-02-00	Ship from	Xiamen, Fujian, China
System family	3300 XL 8 mm Proximity Transducer System		

DOCUMENT SCOPE

Exact ordering-code identity, physical construction, matched-system measurement basis, installation checks, applications, precautions and acceptance records.

MODEL-SPECIFIC ENGINEERING NOTE

Match the 0.5 m probe with the extension cable and Proximitor Sensor total length. Keep thread engagement, cable bend radius, target geometry and final gap within the manufacturer limits.

AS-CONFIGURED IDENTITY

CASE

0.0 in unthreaded / 0.8 in overall

LEAD

0.5 m standard 75 Ohm triaxial cable

APPROVAL

Option 00 - agency approval not required

CONTROLLED ACCEPTANCE DUTY

Record the installed probe identity, extension-cable length, Proximitor Sensor configuration, target geometry and final channel test before release.

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Technical Specifications

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

Exact Ordering-Code 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

Matched-System Performance Basis

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

ENGINEERING BOUNDARY

System performance applies only when the probe, extension cable and Proximitor Sensor are combined in a documented 3300 XL 8 mm configuration and used with the published target and environmental conditions.

MECHANICAL ACCEPTANCE

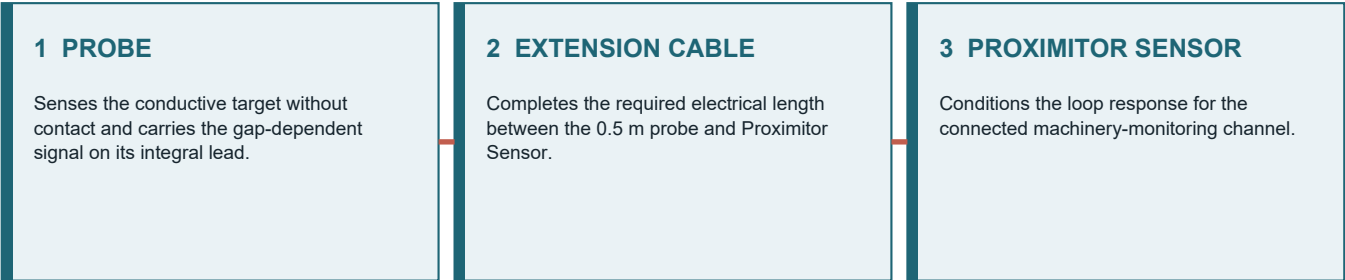
Confirm case reach, thread fit and engagement, mounting torque, cable clearance and 25.4 mm minimum bend radius.

SIGNAL ACCEPTANCE

Document the target basis, operating gap, connected monitor response and functional proof before returning protection service.

System Role and Architecture

330101-00-08-05-02-00 is the probe element of a three-part transducer loop. The probe and extension cable length must equal the configured Proximitor Sensor system length.



Installation and Connection Checks

1 Identity

Record the complete model and final 00 approval option.

2 Thread

Confirm 3/8-24 UNF fit and no more than 0.563 in engagement.

3 Cable

Preserve a 25.4 mm bend radius and prevent abrasion or tensile loading.

4 Connector

Join compatible ClickLoc parts finger-tight until they click.

5 System length

Add the 0.5 m probe length to the chosen extension-cable length.

6 Gap

Establish the documented operating point before controlled release.

Commissioning Acceptance Matrix

CHECK	ACCEPTANCE CONDITION
Identity	330101-00-08-05-02-00 recorded from the physical marking
Mechanical	Thread engagement, torque, clearance and cable route verified
Electrical	Probe + extension length matches the selected Proximitor Sensor
Target	Material, diameter, shaft geometry and tip spacing documented
Functional	Gap voltage, channel response and protection-path test accepted

CONTROLLED RELEASE RECORD

Retain the as-found marking, installed position, matching hardware, extension-cable identity, Proximitor Sensor total length, configured monitor channel, gap voltage and final protection-path test result.

Applications and Engineering Context

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.

TECHNICAL NOTE
Use speed or overspeed measurement only with the manufacturer's application guidance. Keep the 3300 XL loop, monitor input, target geometry, cabling and commissioning checks in the approved machine-protection design.

Model-Specific FAQ

QUESTION	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.

Engineering Precautions

1

CHECK 1

Verify the complete ordering code and physical marking before installation.

2

CHECK 2

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

3

CHECK 3

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

4

CHECK 4

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

5

CHECK 5

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

6

CHECK 6

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

7

CHECK 7

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

8

CHECK 8

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

Related 3300 XL Products on Apter Power

MODEL	RELATION TO THIS PRODUCT	APTER POWER PAGE
330101-00-53-10-12-05	3300 XL 8 mm probe configuration	View 330101-00-53-10-12-05
330101-00-16-05-11-05	3300 XL 8 mm probe configuration	View 330101-00-16-05-11-05
330101-30-60-10-02-05	3300 XL 8 mm probe configuration	View 330101-30-60-10-02-05
330101-00-60-10-02-00	3300 XL 8 mm probe configuration	View 330101-00-60-10-02-00
330101-00-26-05-01-05	3300 XL 8 mm probe configuration	View 330101-00-26-05-01-05
330101-00-49-90-12-05	3300 XL 8 mm probe configuration	View 330101-00-49-90-12-05
330101-30-63-15-02-CN	3300 XL 8 mm probe configuration	View 330101-30-63-15-02-CN
330101-00-18-10-02-00	3300 XL 8 mm probe configuration	View 330101-00-18-10-02-00

MANUFACTURER SOURCE RECORD

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

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