

INDUSTRIAL AUTOMATION PRODUCT

330103-00-25-50-02-02

3300 XL 8 mm Proximity Probe

The probe senses shaft-to-bearing relative displacement without mechanical contact and carries the eddy-current signal through its integral coaxial lead.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 XL 8 mm Proximity Transducer System
Part number	330103-00-25-50-02-02
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	VALUE
Complete catalog number	330103-00-25-50-02-02
Probe construction	Without armor
Mounting thread	M10 x 1
Unthreaded length	0 mm
Case length	250 mm
Total probe length	5.0 m
Connector	Miniature coaxial ClickLoc
Probe-cable type	Standard cable
Approval order code	02
Probe-tip diameter	8.0 mm
System linear range	2.0 mm (80 mils)

PARAMETER	VALUE
Approximate linear-range limits	0.25 to 2.3 mm
Approximate output span	-1 to -17 V DC
Recommended gap	1.27 mm (50 mils)
Nominal output at recommended gap	-9 V DC
Incremental scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz, +0/-3 dB
Minimum flat target diameter	15.2 mm
Recommended minimum shaft diameter	76.2 mm
Probe cable impedance	75 Ohm
Probe cable temperature	-52 to +177 degC

PUBLISHED REFERENCE CONDITIONS

CONDITION	VALUE
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System Role and Architecture

The probe senses shaft-to-bearing relative displacement without mechanical contact and carries the eddy-current signal through its integral coaxial lead.

FUNCTION 1
Detects shaft-to-bearing relative position without contact

FUNCTION 2
Forms the sensing element of a matched 3300 XL 8 mm loop

FUNCTION 3
Carries the eddy-current signal through a 75 Ohm coaxial lead

FUNCTION 4
Supports radial vibration, axial position and shaft centerline observation

Matched system components

- Matched 3300 XL 8 mm Proximator Sensor
- Compatible Bently Nevada monitor channel
- AISI 4140 steel target or approved equivalent
- Supported probe bracket and coaxial routing

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Matched 3300 XL 8 mm Proximator Sensor
Companion hardware	Compatible Bently Nevada monitor channel
Field connection	AISI 4140 steel target or approved equivalent
Primary system function	Detects shaft-to-bearing relative position without contact
Controlled acceptance duty	3300 XL 8 mm Proximity Transducer System installed-base service

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Applications and Engineering Context

**3300 XL 8 mm Proximity Transducer System
installed-base service**

Detects shaft-to-bearing relative position without contact

**3300 XL 8 mm Proximity Transducer System
compatibility review**

Forms the sensing element of a matched 3300 XL 8 mm loop

**3300 XL 8 mm Proximity Transducer System
installation planning**

Carries the eddy-current signal through a 75 Ohm coaxial lead

**3300 XL 8 mm Proximity Transducer System
controlled commissioning**

Supports radial vibration, axial position and shaft centerline observation

TECHNICAL NOTE

Install 330103-00-25-50-02-02 only in the documented 3300 XL 8 mm Proximity Transducer System position and preserve the recorded connections. After installation, restore the approved configuration and complete controlled diagnostic and functional checks.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330103-00-25-50-02-02 / 330103-00-25-50-02-02 recorded
Physical interface	Matched 3300 XL 8 mm Proximitor Sensor
Companion check	Compatible Bently Nevada monitor channel
Functional proof	Detects shaft-to-bearing relative position without contact
Application test	3300 XL 8 mm Proximity Transducer System installed-base service

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Engineering Precautions

1

Verify the complete 330103-00-25-50-02-02 marking and installed position before work.

2

Place the connected equipment in the approved maintenance state.

3

Isolate applicable power and signal energy before disconnecting wiring.

4

Use ESD controls and protect connectors from contamination or damage.

5

Record as-found cable, terminal, shield and grounding identity.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330172-00-08-10-01-05	3300 XL 5/8 mm armored proximity probe	View 330172-00-08-10-01-05 page
330103-00-04-10-02-00	3300 XL 8 mm metric proximity probe	View 330103-00-04-10-02-00 page
330103-00-12-10-02-00	3300 XL 8 mm metric proximity probe	View 330103-00-12-10-02-00 page
330103-00-16-10-02-05	3300 XL 8 mm metric proximity probe	View 330103-00-16-10-02-05 page
330106-05-30-05-02-00	3300 XL 8 mm reverse-mount probe	View 330106-05-30-05-02-00 page
330130-045-00-00	3300 XL standard extension cable	View 330130-045-00-00 page
330130-080-02-05	3300 XL extension cable	View 330130-080-02-05 page
330850-50-00	3300 XL NSv Proximitior Sensor	View 330850-50-00 page

MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet

141194 Rev. AM

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