

INDUSTRIAL AUTOMATION PRODUCT

330104-00-12-10-02-00

3300 XL 8 mm Armored Metric Proximity Probe

330104-00-12-10-02-00 senses shaft-to-bearing relative displacement without mechanical contact and passes the probe signal to a matched Proximity Sensor for machinery-monitoring measurement.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3300 XL 8 mm Proximity Transducer System
Part number	330104-00-12-10-02-00
Country	USA
HS code	8537101190

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Technical Specifications

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

PARAMETER	VALUE
Complete order number	330104-00-12-10-02-00
Probe construction	With armor
Thread	M10 x 1
Unthreaded length	0 mm
Case length	120 mm
Total probe length	1.0 m
Connector option	Miniature coaxial ClickLoc
Probe-cable type	Standard cable
Approval option	Not required
Probe-tip diameter	8.0 mm
System linear range	2.0 mm (80 mils)
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)

PARAMETER	VALUE
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
Minimum shaft diameter	50.8 mm
Recommended shaft diameter	76.2 mm
Probe-cable impedance	75 ohm
Standard probe-cable temperature	-52 to +177 degC
Proximito Sensor supply	-17.5 to -26 V DC
Proximito Sensor current	12 mA maximum
Proximito Sensor output resistance	50 ohm
Field-wiring conductor range	0.2 to 1.5 mm ² (16 to 24 AWG)
Maximum field-wiring length	305 m

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Matched 3300 XL 8 mm Proximito Sensor
Companion hardware	Compatible machinery-protection monitor channel
Field connection	AISI 4140 steel target or validated equivalent
Primary system function	Detects shaft-to-bearing relative position without mechanical contact
Controlled acceptance duty	Radial shaft-vibration measurement

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System Role and Architecture

330104-00-12-10-02-00 senses shaft-to-bearing relative displacement without mechanical contact and passes the probe signal to a matched Proximitor Sensor for machinery-monitoring measurement.

FUNCTION 1

Detects shaft-to-bearing relative position without mechanical contact

FUNCTION 2

Forms the sensing input of a matched eddy-current transducer loop

FUNCTION 3

Supports radial-vibration and axial-position monitoring points

FUNCTION 4

Protects the probe lead where machinery routing needs armored construction

Matched system components

- Matched 3300 XL 8 mm Proximitor Sensor
- Compatible machinery-protection monitor channel
- AISI 4140 steel target or validated equivalent
- Approved mounting bracket and cable routing hardware

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Matched 3300 XL 8 mm Proximitor Sensor
Companion hardware	Compatible machinery-protection monitor channel
Field connection	AISI 4140 steel target or validated equivalent
Primary system function	Detects shaft-to-bearing relative position without mechanical contact
Controlled acceptance duty	Radial shaft-vibration measurement

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Applications and Engineering Context

Radial shaft-vibration measurement

Detects shaft-to-bearing relative position without mechanical contact

Axial position and thrust monitoring

Forms the sensing input of a matched eddy-current transducer loop

Machine shaft centerline observation

Supports radial-vibration and axial-position monitoring points

Long-reach metric probe-loop renewal

Protects the probe lead where machinery routing needs armored construction

TECHNICAL NOTE

Install 330104-00-12-10-02-00 at the documented mechanical reach and keep its armored lead free of sharp bends or tensile load. After connection, establish the static gap in the linear region and prove polarity and dynamic response before enabling alarms.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330104-00-12-10-02-00 / 330104-00-12-10-02-00 recorded
Physical interface	Matched 3300 XL 8 mm Proximitior Sensor
Companion check	Compatible machinery-protection monitor channel
Functional proof	Detects shaft-to-bearing relative position without mechanical contact
Application test	Radial shaft-vibration measurement

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Engineering Precautions

1

Verify the full 330104-00-12-10-02-00 marking and the 120 mm case length before disturbing the bracket.

2

Place the monitored machine and associated protection channel in the approved maintenance state.

3

Protect the 8 mm PPS probe tip and keep the M10 x 1 thread free from burrs and contamination.

4

Route the 1.0 m standard cable probe lead without sharp bends, crushing or tensile loading.

5

Secure the miniature coaxial clickloc connection and keep exposed coaxial interfaces clean and dry.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330171-00-12-05-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-12-05-01-05 page
330171-00-33-50-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-33-50-01-05 page
330171-00-08-10-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-08-10-01-05 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

MANUFACTURER SOURCE RECORD

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet

141194 Rev. AM

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