

APTER POWER

COMPLETE PRODUCT INFORMATION

330103-03-12-05-02-00

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.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 8 mm Proximity Transducer System

PART

330103-03-12-05-02-00

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

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PRODUCT OVERVIEW

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

- 1 Detects shaft-to-bearing relative position without contact
- 2 Forms the sensing element of a matched 3300 XL 8 mm loop
- 3 Carries the eddy-current signal through a 75 Ohm coaxial lead
- 4 Supports radial vibration, axial position and shaft centerline observation

SYSTEM COMPONENTS

Matched 3300 XL 8 mm Proximitors Sensor

Compatible Bently Nevada monitor channel

AISI 4140 steel target or approved equivalent

Supported probe bracket and coaxial routing

TECHNICAL NOTE

Install 330103-03-12-05-02-00 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.

TECHNICAL DATA

PARAMETER	VALUE
Complete catalog number	330103-03-12-05-02-00
Probe construction	Without armor
Mounting thread	M10 x 1
Unthreaded length	30 mm
Case length	120 mm
Total probe length	0.5 m
Connector	Miniature coaxial ClickLoc
Probe-cable type	Standard cable
Approval order code	00
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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330850-50-00	3300 XL NSv Proximitior Sensor	View 330850-50-00 page
330171-00-12-50-01-05	3300 XL 5/8 mm proximity probe	View 330171-00-12-50-01-05 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

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT PRECAUTIONS

- 1 Verify the complete 330103-03-12-05-02-00 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.
- 6 Restore only the approved system configuration for this exact catalog number.
- 7 Inspect mechanical mounting and cable support before energization.
- 8 Complete controlled diagnostics and a functional response test before release.

ENGINEER FAQ

Q1 Does 330103-03-12-05-02-00 match Matched 3300 XL 8 mm Proximity Sensor in a 3300 XL 8 mm Proximity Transducer System installed-base service installation?

Verify the complete 330103-03-12-05-02-00 marking, the documented 3300 XL 8 mm Proximity Transducer System position and the installed Matched 3300 XL 8 mm Proximity Sensor before fitting the assembly.

Q3 Which 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330103-03-12-05-02-00?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330103-03-12-05-02-00 before disconnection.

Q5 Which Compatible Bently Nevada monitor channel condition should be checked when 330103-03-12-05-02-00 reports an abnormal state?

Check the Compatible Bently Nevada monitor channel supply, seating and connection first, then compare channel diagnostics with the recorded 330103-03-12-05-02-00 baseline.

Q7 What maintenance evidence is required after 330103-03-12-05-02-00 is used for 3300 XL 8 mm Proximity Transducer System installation planning?

Retain the nameplate record, corrective action, final diagnostics and a controlled 3300 xl 8 mm proximity transducer system installation planning functional-test result for 330103-03-12-05-02-00.

Q2 How should 330103-03-12-05-02-00 be wired when it must detects shaft-to-bearing relative position without contact?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330103-03-12-05-02-00; then continuity-test the affected path.

Q4 What controlled test confirms that 330103-03-12-05-02-00 can forms the sensing element of a matched 3300 xl 8 mm loop?

Apply the approved field or simulated stimulus, observe the 3300 XL 8 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 330103-03-12-05-02-00 be moved directly into 3300 XL 8 mm Proximity Transducer System compatibility review without validating Supported probe bracket and coaxial routing?

No. Confirm the Supported probe bracket and coaxial routing, revision, connection scheme and 3300 XL 8 mm Proximity Transducer System configuration before transferring 330103-03-12-05-02-00 to that duty.

Q8 How should 330103-03-12-05-02-00 be returned to service in 3300 XL 8 mm Proximity Transducer System controlled commissioning?

Restore power under control, verify carries the eddy-current signal through a 75 ohm coaxial lead, exercise the intended signal path and release 330103-03-12-05-02-00 only after the 3300 XL 8 mm Proximity Transducer System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet | 141194 Rev. AM

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