

APTER POWER

COMPLETE PRODUCT INFORMATION

330101-00-58-10-02-CN

3300 XL 8 mm Proximity Probe

Bently Nevada 330101-00-58-10-02-CN is a configured 3300 XL 8 mm eddy-current proximity probe. It senses shaft displacement for a matched Proximitor Sensor and machinery-protection channel.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 8 mm Proximity Transducer System

PART

330101-00-58-10-02-CN

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PRODUCT OVERVIEW

Bently Nevada 330101-00-58-10-02-CN is a configured 3300 XL 8 mm eddy-current proximity probe. It senses shaft displacement for a matched Proximitor Sensor and machinery-protection channel.

- 1

Detects shaft-to-bearing relative displacement without mechanical contact
- 2

Forms the sensing element of a matched 3300 XL 8 mm transducer loop
- 3

Carries the eddy-current probe signal through the configured triaxial lead
- 4

Supports controlled static-gap and dynamic-response verification

SYSTEM COMPONENTS

- 3300 XL 8 mm Proximitor Sensor
- matched extension cable when required
- compatible machinery-protection monitor
- AISI 4140 steel target

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330171-00-12-05-01-05	3300 XL proximity probe	Open product page
200150-09-CN	General-purpose accelerometer	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Probe body thread	3/8-24 UNF
Mechanical protection	Without armor
Unthreaded length	0.0 in
Overall case length	5.8 in
Integral lead length	1.0 m
Connector execution	ClickLoc without protector
Cable execution	Standard FEP
Transducer series	3300 XL 8 mm
Matched-system linear range	2.0 mm

PARAMETER	VALUE
Frequency response	0 to 10 kHz, +0/-3 dB
Recommended operating gap	1.27 mm approximately
Recommended gap voltage	-9 Vdc approximately
Probe tip material	Polyphenylene sulfide (PPS)
Probe case material	AISI 303 or 304 stainless steel
Probe cable impedance	75 Ohm triaxial
Minimum cable bend radius	25.4 mm
Minimum flat target diameter	15.2 mm
Minimum shaft diameter	50.8 mm

TECHNICAL NOTE

Mount 330101-00-58-10-02-CN to the documented mechanical reach and route its 1.0 m lead without violating the published bend radius. Match total system length, establish the static gap, and prove channel polarity before service.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Radial shaft-vibration measurement

Detects shaft-to-bearing relative displacement without mechanical contact

Axial position and thrust monitoring

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

Machine shaft centerline observation

Carries the eddy-current probe signal through the configured triaxial lead

Bearing-clearance and rotor-position trending

Supports controlled static-gap and dynamic-response verification

PRODUCT PRECAUTIONS

- 1 Verify the complete 330101-00-58-10-02-CN marking and 5.8 in case execution before work.
- 2 Place the monitored machine and protection channel in the approved maintenance state.
- 3 Protect the probe tip and keep the 3/8-24 UNF mounting thread free of burrs and contamination.
- 4 Route the 1.0 m lead without sharp bends, crushing, abrasion, or tensile loading.
- 5 Keep the clickloc without protector connection clean, dry, and finger-tight.
- 6 Match probe, extension cable, and Proximitor Sensor to the engineered system length.
- 7 Set static gap within the approved linear region while maintaining shaft clearance.
- 8 Verify polarity, vibration response, and alarm action before returning protection service.

ENGINEER FAQ

Q1 What should be checked if 330101-00-58-10-02-CN reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.

Q2 Can 330101-00-58-10-02-CN be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

Q3 What commissioning evidence should be retained for 330101-00-58-10-02-CN?

Retain the full 330101-00-58-10-02-CN identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q4 Which installed hardware must be matched before fitting 330101-00-58-10-02-CN?

Match the complete 330101-00-58-10-02-CN marking to 3300 XL 8 mm Proximity Sensor and matched extension cable when required, then confirm the assigned 3300 XL 8 mm Proximity Transducer System position and approved system configuration.

Q5 How should the field connections for 330101-00-58-10-02-CN be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting 330101-00-58-10-02-CN.

Q6 What isolation is required before installing 330101-00-58-10-02-CN?

Place radial shaft-vibration measurement in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.

Q7 Which configuration check is essential when commissioning 330101-00-58-10-02-CN?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.

Q8 How can an engineer function-test 330101-00-58-10-02-CN after installation?

Apply a controlled input, reference, or limited output appropriate to 3300 xl 8 mm proximity probe, observe the system indication and diagnostics, and confirm the intended process response.