

APTER POWER

COMPLETE PRODUCT INFORMATION

330102-00-40-05-01-05

3300 XL 8 mm Proximity Probe

Bently Nevada 330102-00-40-05-01-05 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

330102-00-40-05-01-05

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PRODUCT OVERVIEW

Bently Nevada 330102-00-40-05-01-05 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	Flexible stainless-steel armor
Unthreaded length	0.0 in
Overall case length	4.0 in
Integral lead length	0.5 m
Connector execution	ClickLoc with protector
Cable execution	Standard FEP
Agency approval option	CSA, ATEX and IECEx
Transducer series	3300 XL 8 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 330102-00-40-05-01-05 to the documented mechanical reach and route its 0.5 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 330102-00-40-05-01-05 marking and 4.0 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 0.5 m lead without sharp bends, crushing, abrasion, or tensile loading.
- 5 Keep the clickloc with 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 commissioning evidence should be retained for 330102-00-40-05-01-05?

Retain the full 330102-00-40-05-01-05 identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q3 How should the field connections for 330102-00-40-05-01-05 be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting 330102-00-40-05-01-05.

Q5 Which configuration check is essential when commissioning 330102-00-40-05-01-05?

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.

Q7 What should be checked if 330102-00-40-05-01-05 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 Which installed hardware must be matched before fitting 330102-00-40-05-01-05?

Match the complete 330102-00-40-05-01-05 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.

Q4 What isolation is required before installing 330102-00-40-05-01-05?

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.

Q6 How can an engineer function-test 330102-00-40-05-01-05 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.

Q8 Can 330102-00-40-05-01-05 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.