

330101-37-57-10-02-05

3300 XL 8 mm Standard Proximity Probe

330101-37-57-10-02-05 senses shaft-to-bearing relative displacement without mechanical contact and passes the probe signal to a matched Proximitor Sensor for machinery-monitoring measurement.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3300 XL 8 mm Proximity Trans

PART

330101-37-57-10-02-05

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PRODUCT OVERVIEW

330101-37-57-10-02-05 senses shaft-to-bearing relative displacement without mechanical contact and passes the probe signal to a matched Proximito Sensor for machinery-monitoring measurement.

1

Uses the without armor probe construction selected by 330101-37-57-10-02-05

2

Fits the documented 3/8-24 UNF mounting thread

3

Carries the eddy-current signal through the selected standard cable lead

4

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

SYSTEM COMPONENTS

3300 XL 8 mm Proximito Sensor

Matched 3300 XL extension cable when required

AISI 4140 steel target or validated equivalent

Compatible Bently Nevada monitor channel

TECHNICAL NOTE

Match 330101-37-57-10-02-05 to a 3300 XL 8 mm Proximito Sensor and the approved total system length. Set the static gap in the linear region, route the probe lead without tensile loading, and verify polarity and response before enabling protection logic.

TECHNICAL DATA

PARAMETER	VALUE
Complete order number	330101-37-57-10-02-05
Probe construction	Without armor
Thread	3/8-24 UNF
Unthreaded length	3.7 in
Case length	5.7 in
Total probe length	1.0 m
Connector option	Miniature coaxial ClickLoc
Probe-cable type	Standard cable
Approval option	CSA, ATEX and IECEx
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)

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER 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 extension cable	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

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

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Radial shaft-vibration measurement

Uses the without armor probe construction selected by 330101-37-57-10-02-05

Axial position and thrust monitoring

Fits the documented 3/8-24 UNF mounting thread

Machine shaft centerline observation

Carries the eddy-current signal through the selected standard cable lead

Probe replacement in a matched 3300 XL 8 mm loop

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

PRODUCT PRECAUTIONS

- 1 Verify the full 330101-37-57-10-02-05 marking and the 5.7 in 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 3/8-24 UNF 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.
- 6 Confirm the installed Proximity Sensor and total system length match the probe configuration.
- 7 Set the static gap within the documented linear region before enabling dynamic measurements.
- 8 Prove polarity, vibration response and alarm action before returning the protection channel to service.

ENGINEER FAQ

Q1 Does 330101-37-57-10-02-05 match 3300 XL 8 mm Proximitor Sensor in a Radial shaft-vibration measurement installation?

Verify the complete 330101-37-57-10-02-05 marking, the documented Bently Nevada 3300 XL 8 mm Proximity Transducer System position and the installed 3300 XL 8 mm Proximitor Sensor before fitting the assembly.

Q3 Which Bently Nevada 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330101-37-57-10-02-05?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330101-37-57-10-02-05 before disconnection.

Q5 Which Matched 3300 XL extension cable when required condition should be checked when 330101-37-57-10-02-05 reports an abnormal state?

Check the Matched 3300 XL extension cable when required supply, seating and connection first, then compare channel diagnostics with the recorded 330101-37-57-10-02-05 baseline.

Q7 What maintenance evidence is required after 330101-37-57-10-02-05 is used for Machine shaft centerline observation?

Retain the nameplate record, corrective action, final diagnostics and a controlled machine shaft centerline observation functional-test result for 330101-37-57-10-02-05.

Q2 How should 330101-37-57-10-02-05 be wired when it must uses the without armor probe construction selected by 330101-37-57-10-02-05?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330101-37-57-10-02-05; then continuity-test the affected path.

Q4 What controlled test confirms that 330101-37-57-10-02-05 can fits the documented 3/8-24 unf mounting thread?

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

Q6 Can 330101-37-57-10-02-05 be moved directly into Axial position and thrust monitoring without validating Compatible Bently Nevada monitor channel?

No. Confirm the Compatible Bently Nevada monitor channel, revision, connection scheme and Bently Nevada 3300 XL 8 mm Proximity Transducer System configuration before transferring 330101-37-57-10-02-05 to that duty.

Q8 How should 330101-37-57-10-02-05 be returned to service in Probe replacement in a matched 3300 XL 8 mm loop?

Restore power under control, verify carries the eddy-current signal through the selected standard cable lead, exercise the intended signal path and release 330101-37-57-10-02-05 only after the Bently Nevada 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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