

APTER POWER

COMPLETE PRODUCT INFORMATION

330101-00-60-90-01-05

3300 XL 8 mm 3/8-24 UNF proximity probe

Non-contact eddy-current displacement signal over a nine-metre 3300 XL probe cable

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 XL 8 mm Proximity Transducer System

PART

330101-00-60-90-01-05

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PRODUCT OVERVIEW

Non-contact eddy-current displacement signal over a nine-metre 3300 XL probe cable

1

Uses a 6.0 in 3/8-24 UNF case

2

Provides a long 9.0 m standard probe lead

3

Protects the miniature ClickLoc connector

4

Carries the documented multiple-approval suffix

SYSTEM COMPONENTS

Nine-metre 3300 XL Proximity Sensor

AISI 4140 target

Probe mounting bracket

Compatible machinery monitor

TECHNICAL NOTE

Confirm the nine-metre Proximity Sensor configuration, 6.0 in case, connector protector and approval marking before installation and gap verification.

TECHNICAL DATA

PARAMETER	VALUE
Probe model	330101
Probe thread	3/8-24 UNF
Armor	No
Unthreaded length	0.0 in
Overall case length	6.0 in
Total probe length	9.0 m (29.5 ft)
Connector	Miniature coaxial ClickLoc with protector
Probe cable	Standard
Agency approval option	CSA, ATEX and IECEx
Probe DC resistance	9.87 +/-0.50 Ohm
Power without barriers	-17.5 to -26 V DC; 12 mA maximum

PARAMETER	VALUE
Power with barriers	-23 to -26 V DC
Supply sensitivity	<2 mV/V
Output resistance	50 Ohm
Field-wire conductor range	0.2 to 1.5 mm ² (16 to 24 AWG)
Maximum field-wire length	305 m (1000 ft)
Linear range	2.0 mm (80 mils)
Linear-range limits	0.25 to 2.30 mm (10 to 90 mils)
Recommended radial-vibration gap	-9 V DC; approximately 1.27 mm (50 mils)
Incremental scale factor	7.87 V/mm (200 mV/mil)
Frequency response	0 to 10 kHz; +/-3 dB
Extension-cable capacitance	69.9 pF/m typical

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330190-085-01-00	Related Bently Nevada product	View 330190-085-01-00 page
330102-25-40-10-02-05	Related Bently Nevada product	View 330102-25-40-10-02-05 page
330104-00-11-50-02-00	Related Bently Nevada product	View 330104-00-11-50-02-00 page
330101-00-12-20-02-05	Related Bently Nevada product	View 330101-00-12-20-02-05 page
330171-00-08-10-02-05	Related Bently Nevada product	View 330171-00-08-10-02-05 page
21747-065-01	Related Bently Nevada product	View 21747-065-01 page
330881-28-00-061-03-02	Related Bently Nevada product	View 330881-28-00-061-03-02 page
330103-00-03-15-01-CN	Related Bently Nevada product	View 330103-00-03-15-01-CN page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Remote radial vibration point

Uses a 6.0 in 3/8-24 UNF case

Long-route axial position loop

Provides a long 9.0 m standard probe lead

Shaft centerline measurement

Protects the miniature ClickLoc connector

Approved-area probe replacement

Carries the documented multiple-approval suffix

PRODUCT PRECAUTIONS

- 1 Verify the complete 330101-00-60-90-01-05 marking, 3/8-24 UNF unarmored construction and assigned measuring point before work.
- 2 Place the monitored machine and its protection channel in the approved maintenance state before disturbing the probe.
- 3 Protect the probe tip and 3/8-24 UNF unarmored interface from impact, burrs, contamination and unintended side-view metal.
- 4 Route and support the 9.0 m probe lead without sharp bends, crushing, tensile load or contact with hot and moving surfaces.
- 5 Keep every ClickLoc interface clean, dry and fully engaged; preserve connector-protector hardware where supplied.
- 6 Confirm the matched 3300 XL 8 mm Proximitar Sensor, total system length and target material before setting the static gap.
- 7 Maintain the documented probe-tip separation where adjacent channels could create cross-talk.
- 8 Prove gap voltage, polarity, dynamic response and alarm action before returning the protection channel to service.

ENGINEER FAQ

Q1 Does 330101-00-60-90-01-05 match Nine-metre 3300 XL Proximity Sensor in a Remote radial vibration point installation?

Verify the complete 330101-00-60-90-01-05 marking, the documented 3300 XL 8 mm Proximity Transducer System position and the installed Nine-metre 3300 XL Proximity Sensor before fitting the assembly.

Q3 Which 3300 XL 8 mm Proximity Transducer System records should be captured before removing 330101-00-60-90-01-05?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330101-00-60-90-01-05 before disconnection.

Q5 Which AISI 4140 target condition should be checked when 330101-00-60-90-01-05 reports an abnormal state?

Check the AISI 4140 target supply, seating and connection first, then compare channel diagnostics with the recorded 330101-00-60-90-01-05 baseline.

Q7 What maintenance evidence is required after 330101-00-60-90-01-05 is used for Shaft centerline measurement?

Retain the nameplate record, corrective action, final diagnostics and a controlled shaft centerline measurement functional-test result for 330101-00-60-90-01-05.

Q2 How should 330101-00-60-90-01-05 be wired when it must uses a 6.0 in 3/8-24 unf case?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330101-00-60-90-01-05; then continuity-test the affected path.

Q4 What controlled test confirms that 330101-00-60-90-01-05 can provides a long 9.0 m standard probe lead?

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 330101-00-60-90-01-05 be moved directly into Long-route axial position loop without validating Compatible machinery monitor?

No. Confirm the Compatible machinery monitor, revision, connection scheme and 3300 XL 8 mm Proximity Transducer System configuration before transferring 330101-00-60-90-01-05 to that duty.

Q8 How should 330101-00-60-90-01-05 be returned to service in Approved-area probe replacement?

Restore power under control, verify protects the miniature clickloc connector, exercise the intended signal path and release 330101-00-60-90-01-05 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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