Bently Nevada 330101-00-32-10-02-05

01 Define the measurement chain

1 Record the installed configuration

Identify the complete probe marking, Proximitor Sensor system length and any extension cable. Keep the 1.0 m probe length distinct from total electrical length. Photograph connector routing and cable identification before disconnecting the measurement chain.

2 Establish a safe machine state

Put the affected machine-monitoring channel into its approved maintenance state. Coordinate the work with the machinery protection procedure so an intentional disconnection or gap change is not mistaken for a process condition.

3 Check the component family

Use matching 3300 XL 8 mm components for the stated XL performance. Mixing XL and compatible non-XL 3300 components reduces the system performance boundary to the non-XL specification; mechanical fit alone is not enough.

Configuration point	Required check
Probe	Exact 1.0 m standard unarmored configuration
Complete electrical length	Matches the selected Proximitor Sensor
Target	Material and geometry identified

330101-00-32-10-02-05 / Mount and position the probe

02 Mount and position the probe

1 Inspect the mounting thread

Verify the 3/8-24 UNF internal thread and matching fit before insertion. Limit engagement to 0.563 inch. Do not use the length of the probe case as permission to engage every available thread, because excessive engagement can produce binding.

2 Assess target clearance

Check for a flat target of at least 15.2 mm diameter or an appropriate shaft. Minimum shaft diameter is 50.8 mm and the recommended minimum is 76.2 mm. Nearby metal and adjacent probes can influence the response.

3 Set the initial measurement gap

For radial vibration, prepare for approximately 1.27 mm gap and verify the resulting voltage with the complete chain. The nominal -9 VDC relationship assumes the specified target and calibration conditions; do not treat a mechanical measurement alone as final acceptance.

Mechanical check	Reference value
3/8-24 engagement	0.563 inch maximum
Flat target	15.2 mm minimum diameter
Radial-vibration gap	Approximately 1.27 mm; verify electrical response

330101-00-32-10-02-05 / Connect and protect the cable

03 Connect and protect the cable

1 Identify the standard cable

The selected probe uses standard FEP-insulated 75-ohm triaxial cable and a ClickLoc connector. It is not the FluidLoc selection. Ensure that liquid containment in the machine does not depend on an assumed fluid-blocking cable feature.

2 Make the ClickLoc connection

Keep connector surfaces clean, then finger-tighten a pair of gold ClickLoc connectors until the locking action is achieved. Do not apply the probe-case torque to the connector. Protect the joint against the actual environmental exposure.

3 Support the routed cable

Route the lead and extension away from mechanical damage and maintain the applicable cable bend limits. Standard extension cable requires at least a 25.4 mm bend radius. The selected connector has no factory-installed protector, so review installation protection separately.

Connection item	Installation focus
Gold ClickLoc pair	Finger-tight locking connection
Extension bend radius	25.4 mm minimum
Standard cable	No FluidLoc claim

330101-00-32-10-02-05 / Verify the signal chain

04 Verify the signal chain

1 Check continuity before service

For the 1.0 m probe, compare center-to-outer conductor resistance with 7.59 ± 0.50 ohm using the appropriate isolated test arrangement. Resolve opens, shorts or unstable connection readings before reconnecting and testing the complete channel.

2 Verify controlled gap response

Use a controlled target or gap change and confirm the direction and magnitude of the conditioned signal. The matched system nominal scale factor is 7.87 V/mm over its specified 2 mm linear range; actual acceptance must retain the applicable temperature and target conditions.

3 Compare monitor indication

Confirm that the monitor indicates the applied displacement correctly and that the configured channel response is restored. A resistance reading does not demonstrate correct scale factor, target suitability, gap or monitor configuration.

Verification layer	What it establishes
Probe continuity	Basic conductor condition
Gap response	Conditioned measurement behavior
Monitor test	Complete channel response

330101-00-32-10-02-05 / Release and retain evidence

05 Release and retain evidence

1 Review environmental limits

Confirm that the standard probe remains within -52°C to +177°C and the Proximitor Sensor within its separate operating range. Exposure below -34°C can impair the probe pressure seal. Evaluate containment independently; probes are not pressure-tested before shipment.

2 Restore protection deliberately

Restore the channel and associated protection only after connection, gap and indication checks are complete. Remove temporary bypasses under the site procedure and retain the approved alarm configuration rather than altering limits to hide an installation problem.

3 Record the final installation

Keep the full probe marking, cable identities, sensor length, target information and final gap voltage with the maintenance record. These details let a later replacement preserve the calibrated chain instead of relying on an incomplete base-model description.

Technical basis: Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN.

Related product navigation

- Bently Nevada 330180-50-05
- Bently Nevada 330180-91-00
- Bently Nevada 330180-51-05

These are related references, not confirmed substitutes or an automatically approved assembly.