Bently Nevada 31000-28-10-15-040-03-02

01 Measurement position checks

1 Check the housing-to-bearing relationship

Confirm that the radial mounting position is on a casing affixed to the bearing. A rigid housing installation on an unsuitable moving structure can produce a signal that does not represent the intended shaft-relative vibration.

2 Separate penetration from probe gap

Record the 4 inch penetration and the actual probe-to-target gap as different quantities. Preserve the 1.5 inch standoff and available sleeve travel before releasing the probe adjustment mechanism.

Measurement position	Radial casing mount
Standoff	1.5 in
Penetration	4.0 in

02 Mounting interface checks

1 Confirm the NPT standoff mounting

Inspect the 3/4-14 NPT mounting interface and the selected standoff arrangement. Do not substitute a near-size straight thread or remove the adapter without reassessing the penetration geometry.

2 Retain the eight-millimetre probe chain

Identify the installed 3300 XL 8 mm probe and its 1 m cable, then check the associated extension and Proximitor. Mechanical housing compatibility does not establish electrical compatibility with another transducer family.

Mounting interface	3/4-14 NPT
Selected probe	3300 XL 8 mm
Probe cable	1.0 m

03 Fittings checks

1 Restore the selected fitting set

Check the two plugs, NPT fitting, reducer and cable seal grip against the installed entry arrangement. Close unused entries correctly and select the grommet for the actual cable rather than compressing an unsuitable size.

2 Keep the cable label and route accessible

Route the probe cable without trapping it in the sleeve or fittings. Retain access to its identity and connection so future service can distinguish the probe from the external extension cable.

Fittings	NPT fitting, reducer and two plugs
Cable entry	Seal grip with matching grommet
Service access	External

04 Sleeve travel checks

1 Adjust within the sleeve travel

Use the available ±0.5 inch penetration adjustment to establish the required transducer gap. Keep the machine safely stationary and check the response electrically rather than assuming the nominal penetration dimension sets the correct gap.

2 Assess protection as an assembly

Inspect housing closure and cable entries for environmental integrity. The PPS housing is not an explosion-proof enclosure, so do not infer that its presence alone satisfies a hazardous-area installation requirement.

Sleeve travel	±0.5 in
Housing role	Mechanical and environmental protection
Gap	Set independently

05 Recorded geometry checks

1 Verify the radial measurement response

Perform the approved gap and known-displacement test using the complete matched channel. Confirm the monitor assignment and polarity, and ensure that the probe is not influenced by unintended nearby metal.

2 Record the final installed geometry

Retain standoff, penetration, sleeve position, fitting selection and complete probe-chain identities. Record the accepted gap and response so a later external probe replacement can reproduce the verified arrangement.

Technical basis: Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies, 141610 Rev. R.

Related product navigation

- Bently Nevada 330103-00-04-05-02-00
- Bently Nevada 330103-00-05-05-02-00

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