# Bently Nevada 330105-02-12-15-02-05

## 01 Reverse-mount sleeve and rear access

### 1 Identify the fixed reverse-mount geometry

Record the full 330105-02-12-15-02-05 marking, probe position, target material and original gap. Identify the reverse-mount sleeve and rear-access arrangement. Retain the monitor scale and the identities of the extension cable and Proximitor before removing the probe.

### 2 Preserve the complete 330105 order identity

Keep the fixed reverse-mount arrangement with the sleeve and rear-access record. The 02-12 portion is not a pair of ordinary variable case dimensions and should not be used to infer a different probe geometry.

| | |
|---|---|
| Record | Complete marking and installed position |
| Comparison | Field labels agree with application assignments |
| Probe construction | Reverse mount |
| Mounting thread | 3/8-24 UNF |

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## 02 3/8-24 UNF reverse-mount engagement

### 1 Inspect the mounting thread and sleeve

Isolate the measurement channel and protect the machine against unintended operation. Inspect the 3/8-24 UNF mount and fixed reverse-mount geometry arrangement. Do not decode 02-12 as ordinary variable case dimensions. Keep the sensing face and connector free of damage while preparing the replacement.

### 2 Check access without disturbing the target clearance

Confirm that the rear-access arrangement permits installation and secure engagement while preserving the target position. Thread compatibility by itself does not prove the sleeve can be adjusted and locked correctly.

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|---|---|
| Supply evidence | Measured at the device connection |
| Work condition | Power isolated while wiring is handled |
| Tip diameter | 8 mm |
| Probe length | 1.5 m |

## 03 1.5 m probe lead and 3.5 m extension

### 1 Restore the matched 5 m electrical chain

Restore the 1.5 m probe lead without shortening or splicing it. Preserve the standard cable construction and protect the ClickLoc joint from strain and contamination. A 3.5 m extension completes a 5 m chain with this probe. Label the signal chain so the cable cannot be confused with an adjacent transducer.

### 2 Keep the reverse-mount lead at its original length

Verify the 1.5 m probe and correct 3.5 m extension together with the 5 m Proximitor. Do not shorten the probe lead to simplify rear routing or substitute a cable solely by connector appearance.

| | |
|---|---|
| Wiring record | Connection-by-connection comparison |
| Physical inspection | Shield, connector and strain relief checked |
| Connector | Miniature ClickLoc coaxial |
| Probe resistance | 7.73 ohm ±0.50 ohm |

## 04 Sleeve adjustment and radial gap

### 1 Set the 1.27 mm reference with the chain connected

Connect the complete matched system before setting the gap. Use 1.27 mm (approximately -9 V for radial vibration) as the specified reference, subject to the machine position and target calibration. Verify sleeve movement does not change the final target clearance. Tighten and secure the mounting without changing the final gap.

### 2 Recheck output after sleeve movement stops

Compare the gap indication before and after locking the sleeve. Resolve any output change caused by sleeve movement or connector handling before accepting the approximate -9 V radial-vibration reference.

| | |
|---|---|
| Configuration | Approved settings restored |
| Diagnostic condition | Normal recognition before functional testing |
| System linear range | 2 mm |
| System scale factor | 7.87 V/mm |

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## 05 Probe continuity and displacement scale

### 1 Test the installed 7.87 V/mm response

Apply a controlled target displacement and compare the output with the expected 7.87 V/mm scale over the intended operating segment. Use 7.73 ohm ±0.50 ohm for the nominal probe resistance check. Check the configured monitor response and alarms, then retain the final gap and test readings.

### 2 Keep nominal resistance and live calibration separate

Use 7.73 ohm ±0.50 ohm for the applicable disconnected probe check, then test the complete live chain with controlled displacement. The resistance result and the system-slope result establish different aspects of the installation.

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

## Related product navigation

- Bently Nevada 3500/94 190214-01
- Bently Nevada 3500/94M

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