Bently Nevada 330104-01-08-50-01-05

01 Five-metre probe and Proximitor pairing

1 Identify the full-length armored probe route

Record the full 330104-01-08-50-01-05 marking, probe position, target material and original gap. Identify the 5 m Proximitor and the full probe cable route. Retain the monitor scale and the identities of the extension cable and Proximitor before removing the probe.

2 Retain the 5 m system restriction

Confirm the installed Proximitor is the correct 5 m execution for this 5.0 m probe lead. Do not add an extension to create a 9 m chain from this probe configuration.

Record	Complete marking and installed position
Comparison	Field labels agree with application assignments
Tip diameter	8 mm
Mounting thread	M10 x 1

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02 80 mm case and unthreaded clearance

1 Inspect the M10 mount and 10 mm unthreaded section

Isolate the measurement channel and protect the machine against unintended operation. Inspect the M10 x 1 mount and 80 mm case; 10 mm unthreaded arrangement. Retain the 10 mm unthreaded portion and its required clearance. Keep the sensing face and connector free of damage while preparing the replacement.

2 Check the required engagement before setting the gap

Retain the distinction between the 80 mm case and its 10 mm unthreaded portion. Confirm the available mounting engagement and target clearance before using the mechanical position as the final gap adjustment.

Supply evidence	Measured at the device connection
Work condition	Power isolated while wiring is handled
Case length	80 mm
Unthreaded section	10 mm

03 Armored lead and connector protector

1 Route the complete 5.0 m lead

Restore the 5.0 m probe lead without shortening or splicing it. Preserve the armored standard cable with connector protector construction and protect the ClickLoc joint from strain and contamination. Do not add extension cable to form a 9 m system. Label the signal chain so the cable cannot be confused with an adjacent transducer.

2 Fit the protector without loading the ClickLoc joint

Inspect the joint after the connector protector is fitted and the armored cable is supported. The protector should not force a bend or axial load into the connection or conceal incomplete engagement.

Wiring record	Connection-by-connection comparison
Physical inspection	Shield, connector and strain relief checked
Probe length	5.0 m
Lead protection	Armor and connector protector

04 Matched-system radial gap adjustment

1 Set the 1.27 mm reference gap

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. Check the connector protector is fitted without straining the cable. Tighten and secure the mounting without changing the final gap.

2 Check the gap after final armored-cable support

Compare the approximate -9 V radial reference before and after securing the cable. Any mechanically induced change must be corrected without altering the calibrated electrical length of the probe assembly.

Configuration	Approved settings restored
Diagnostic condition	Normal recognition before functional testing
Compatible system length	5 m only
Probe resistance	8.73 ohm ±0.50 ohm

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05 Five-metre probe acceptance tests

1 Verify the live displacement response

Apply a controlled target displacement and compare the output with the expected 7.87 V/mm scale over the intended operating segment. Use the 8.73 ohm ±0.50 ohm nominal probe resistance as a separate continuity check. Check the configured monitor response and alarms, then retain the final gap and test readings.

2 Distinguish continuity from the complete signal test

Record the 8.73 ohm ±0.50 ohm nominal probe resistance separately from the 7.87 V/mm system-response result. Use controlled target movement after the connector protector and mounting are in their final positions.

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

Related product navigation

- Bently Nevada 990-04-70-02-00
- Bently Nevada 990-05-50-01-00

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