Bently Nevada 330704-000-050-10-02-05

01 XL 11 mm transducer-chain identity

1 Identify the probe, extension and Proximitor

Record the full 330704-000-050-10-02-05 marking, probe position, target material and original gap. Confirm an XL 11 mm chain rather than an XL 8 mm chain. Retain the monitor scale and the identities of the extension cable and Proximitor before removing the probe.

2 Keep the 11 mm scale distinct from XL 8 mm

Verify the monitor configuration belongs to the matched XL 11 mm chain. Its 3.94 V/mm scale differs from the XL 8 mm system, even when the connector style looks similar.

Record	Complete marking and installed position
Comparison	Field labels agree with application assignments
Tip diameter	11 mm
Mounting thread	M14 x 1.5

02 M14 mount and sensing-tip clearance

1 Inspect the 50 mm threaded case

Isolate the measurement channel and protect the machine against unintended operation. Inspect the M14 x 1.5 mount and 50 mm case; 0 mm unthreaded arrangement. Check clearance around the larger 11 mm tip. Keep the sensing face and connector free of damage while preparing the replacement.

2 Check the larger sensing face against the target space

Confirm the installation accommodates the 11 mm tip without contact during the expected machine movement. Mechanical thread engagement alone does not establish adequate target clearance or the final operating gap.

Supply evidence	Measured at the device connection
Work condition	Power isolated while wiring is handled
Unthreaded section	0 mm
Case length	50 mm

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03 Armored lead and 5 m chain assembly

1 Restore the full 1.0 m probe cable

Restore the 1.0 m probe lead without shortening or splicing it. Preserve the armored standard cable construction and protect the ClickLoc joint from strain and contamination. For a 5 m system, pair the 1 m probe with the correct 4 m extension. Label the signal chain so the cable cannot be confused with an adjacent transducer.

2 Confirm the extension contributes the remaining length

For the selected 5 m arrangement, verify the correct 4 m extension accompanies the 1 m probe lead. Keep the actual electrical components together when labeling the chain rather than identifying it by total route length.

Wiring record	Connection-by-connection comparison
Physical inspection	Shield, connector and strain relief checked
Probe length	1.0 m
Lead protection	Armor

04 2.5 mm reference gap and locking

1 Adjust the complete matched system

Connect the complete matched system before setting the gap. Use 2.5 mm as the specified reference, subject to the machine position and target calibration. The gap must remain inside the XL 11 mm operating range. Tighten and secure the mounting without changing the final gap.

2 Check the secured gap within the 4 mm linear range

Compare the output after tightening with the output during adjustment. Retain the reference gap and the expected machine movement within the applicable XL 11 mm operating range before accepting the locked position.

Configuration	Approved settings restored
Diagnostic condition	Normal recognition before functional testing
Connector	Miniature coaxial ClickLoc, standard cable
System linear range	4 mm

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05 11 mm system displacement-response test

1 Apply known target displacement

Apply a controlled target displacement and compare the output with the expected 3.94 V/mm scale over the intended operating segment. Do not compare the result against an 8 mm-system scale. Check the configured monitor response and alarms, then retain the final gap and test readings.

2 Compare measured slope with the 3.94 V/mm scale

Record displacement and output change as a pair. Evaluate the slope against the 11 mm-system scale, then verify the receiving monitor uses that same scale before checking alarm behavior.

Technical basis: Bently Nevada 3300 XL 11 mm Proximity Transducer System, 146256 Rev. T.

Related product navigation

- Bently Nevada 330103-00-05-05-02-CN
- Bently Nevada 330103-03-06-05-02-00

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