Bently Nevada 330905-00-18-05-02-05

01 NSv target and neighboring-probe geometry

1 Record the long-case probe position

Record the full 330905-00-18-05-02-05 marking, probe position, target material and original gap. Record nearby probe positions and target diameter. Retain the monitor scale and the identities of the extension cable and Proximitor before removing the probe.

2 Retain the small-target measurement boundary

Check the target geometry and nearby probe positions as part of the NSv installation. The family permits a minimum flat target diameter of 8.9 mm, with 13 mm recommended; surrounding geometry still requires attention.

Record	Complete marking and installed position
Comparison	Field labels agree with application assignments
Mounting thread	M10 x 1
Unthreaded section	0 mm

02 M10 mount and 180 mm case clearance

1 Protect the sensing face during insertion

Isolate the measurement channel and protect the machine against unintended operation. Inspect the M10 x 1 mount and 180 mm case; 0 mm unthreaded arrangement. The long case must not introduce contact with the machine or target. Keep the sensing face and connector free of damage while preparing the replacement.

2 Check clearance over the full case and lead route

Inspect the complete long-case installation for potential contact or strain points. Thread compatibility does not establish that the sensing tip remains clear throughout machine movement or that the lead route is protected.

Supply evidence	Measured at the device connection
Work condition	Power isolated while wiring is handled
Case length	180 mm
Probe length	0.5 m

03 NSv extension and 0.5 m probe lead

1 Reconnect the correct NSv cable family

Restore the 0.5 m probe lead without shortening or splicing it. Preserve the unarmored standard cable construction and protect the ClickLoc joint from strain and contamination. Use an NSv extension rather than an XL 8 mm cable selected by appearance. Label the signal chain so the cable cannot be confused with an adjacent transducer.

2 Do not identify compatibility by coaxial appearance

Compare the probe, extension and Proximitor identities before coupling the connectors. The 0.5 m probe lead must remain part of a matched NSv chain; a similar XL 8 mm cable is not sufficient evidence of compatibility.

Wiring record	Connection-by-connection comparison
Physical inspection	Shield, connector and strain relief checked
Cable construction	Standard, unarmored
Connector	Miniature coaxial ClickLoc

04 1.0 mm gap and NSv measurement travel

1 Set the gap with the full electrical chain

Connect the complete matched system before setting the gap. Use 1.0 mm as the specified reference, subject to the machine position and target calibration. Check that machine travel remains within the 1.5 mm linear range. Tighten and secure the mounting without changing the final gap.

2 Keep expected travel inside the 1.5 mm linear range

Check both the set gap and the direction of expected target movement. A correct static reference does not establish that the complete operating excursion remains inside the usable NSv measurement range.

Configuration	Approved settings restored
Diagnostic condition	Normal recognition before functional testing
System linear range	1.5 mm
System scale factor	7.87 V/mm

330905-00-18-05-02-05

05 NSv scale and close-clearance response

1 Apply controlled movement at the actual target

Apply a controlled target displacement and compare the output with the expected 7.87 V/mm scale over the intended operating segment. Test adjacent channels for cross-talk when geometry is constrained. Check the configured monitor response and alarms, then retain the final gap and test readings.

2 Separate target effects from cable or monitor faults

Compare the measured response with the intended 7.87 V/mm system scale under the applicable target conditions. If the response changes with nearby geometry, investigate that effect before adjusting the monitor calibration.

Technical basis: Bently Nevada 3300 XL NSv Proximity Transducer System, 147385 Rev. R.

Related product navigation

- Bently Nevada 330101-00-08-05-02-05
- Bently Nevada 330101-00-28-05-02-00

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