01 INSTALLATION & COMMISSIONING

Bently Nevada 330905-00-03-10-02-00

01 / PLAN AND IDENTIFY THE WORK

Bently Nevada 330905-00-03-10-02-00 is a standard-mount 3300 NSv proximity probe with an M10X1 case, 0 mm unthreaded length, 30 mm overall case length, 1.0 m standard cable and a miniature coaxial ClickLoc connector. It is the sensing element in a 3300 XL NSv proximity-transducer chain for tight-clearance rotating-machinery measurements.

Confirm the exact supplied probe

Base code 330905	M10X1 standard-mount NSv probe without armor
00 / 03	0 mm unthreaded length / 30 mm overall case length
10	1.0 m total probe length
02	ClickLoc miniature coaxial connector with standard cable
00	Agency approval not required

Work boundary

Machine target Small shaft or flat target within the documented NSv geometry	**330905-00-03-10-02-00** Compact 30 mm M10X1 non-armored probe with 1.0 m standard cable	**Extension + Proximitor + monitor** Completes the 5 m or 7 m NSv chain and conditions the proximity signal

01 Capture the installed chain

Record the exact probe, extension cable, Proximitor Sensor, monitored position, target and channel before removal. Apply the machine's authorized isolation and protection-bypass procedure.

Related Bently Nevada models

Bently Nevada 330103-00-14-05-02-00	Related NSv component or probe; compare the complete execution
Bently Nevada 330505-02-02-02	Related NSv component or probe; compare the complete execution

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02 / PRE-INSTALLATION READINESS

Readiness gate

Identity	All six model-code fields match the unit and work order
Mounting	M10X1 engagement is no more than 15 mm
Routing	Bend radius remains at least 25.4 mm; cable is supported
Connection	ClickLoc joint is clean, locked and protected from liquids

Torque plan

M10X1 case	11.3 N m recommended; 33.9 N m maximum
First three threads	7.5 N m recommended; 22.6 N m maximum
ClickLoc connector	Finger tight recommended; 0.56 N m maximum

02 Inspect the probe and cable

Reject damaged threads, a contaminated probe tip, a distorted lead, a compromised FEP jacket or a damaged ClickLoc connector. Keep the probe lead unloaded while preparing the route.

03 Review the process boundary

The probe uses a Viton O-ring pressure seal and is not pressure tested before shipment. Sustained exposure below -34 deg C may shorten seal life even though the listed probe temperature range extends to -52 deg C. Review process-media containment separately.

Related Bently Nevada models

Bently Nevada 330104-03-09-10-02-00	Related NSv component or probe; compare the complete execution
Bently Nevada 330190-035-00-00	Related NSv component or probe; compare the complete execution

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03 / INSTALL AND CONNECT

04 Prepare the M10X1 mounting point

Confirm the thread form, usable depth and alignment. Keep engagement within 15 mm and prevent the probe tip from contacting the target during insertion.

05 Secure the probe case

Use the documented M10X1 torque limits for the engaged length. Apply torque to the intended flats or mounting feature; never use the cable or connector as a reaction point.

06 Route the 1.0 m lead

Maintain at least a 25.4 mm bend radius, support the cable against vibration and abrasion, and leave enough service allowance to make the ClickLoc joint without axial load.

07 Complete the ClickLoc joint

Option 02 supplies the standard cable and ClickLoc connector without the connector protector. Keep the connection clean and dry, lock it fully, and apply only the connector torque limit; the much larger probe-case torque does not apply to the connector.

Mechanical acceptance

Mounting	M10X1 engagement is no more than 15 mm
Routing	Bend radius remains at least 25.4 mm; cable is supported
Connection	ClickLoc joint is clean, locked and protected from liquids
System pairing	Probe, extension cable and NSv Proximitor form the approved 5 m or 7 m chain

Related Bently Nevada models

Bently Nevada 330905-08-13-10-02-05	Related NSv component or probe; compare the complete execution
Bently Nevada 330703-000-100-10-02-00	Related NSv component or probe; compare the complete execution

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04 / GAP AND COMMISSION THE CHANNEL

08 Rebuild the approved NSv chain

NSv response depends on the matched probe, extension cable, Proximitor Sensor, target and installed gap. Do not transfer scale factor or system length from a similar probe.

09 Establish the gap

Use the machine and NSv system procedure for target condition, static voltage and final gap. A physically centered probe or a valid thread position alone does not establish an accepted electrical gap.

10 Verify channel response

After the authorized energization sequence, observe stable proximity response and complete the machine-specific radial, axial, speed or phase-reference test assigned to this position.

Commissioning evidence

System pairing	Probe, extension cable and NSv Proximitor form the approved 5 m or 7 m chain
Acceptance	Gap, target and monitor response meet the machine procedure
Record	Exact model, installed position and companion components
Mechanical evidence	Thread engagement, applied torque and cable-route inspection

11 Resolve abnormal response

If the response is unstable or out of range, recheck target, gap, cable routing, ClickLoc seating, extension length and Proximitor identity before replacing parts.

Related Bently Nevada models

Bently Nevada 330101-00-13-10-02-00	Related NSv component or probe; compare the complete execution
Bently Nevada 330780-50-CN	Related NSv component or probe; compare the complete execution

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05 / HANDOVER AND SERVICE QUESTIONS

How compact is the case on 330905-00-03-10-02-00?

The metric ordering fields select 0 mm unthreaded length and a 30 mm overall case length. Verify the mounting geometry against both values before installation.

Does connector option 02 on 330905-00-03-10-02-00 include a connector protector?

No. Option 02 specifies a miniature coaxial ClickLoc connector with standard cable. The standard-cable option with a connector protector is option 01.

How much M10X1 thread engagement is allowed for 330905-00-03-10-02-00?

Maximum M10X1 thread engagement is 15 mm. Longer engagement can cause binding, so verify the tapped mounting depth before installation.

What cable-routing limit matters for 330905-00-03-10-02-00?

Keep the bend radius at or above 25.4 mm and avoid pulling on the 1.0 m probe lead. The maximum-rated probe-case-to-lead tensile strength is 220 N, but that rating is not a normal routing load.

Handover record

Record	Exact model, installed position and companion components
Mechanical evidence	Thread engagement, applied torque and cable-route inspection
Electrical evidence	Connected system identity and stable proximity response
Functional evidence	Approved channel test and machine-specific acceptance result

Selection boundary

Related models are portfolio references. A matching family name, connector or thread does not prove interchangeability; compare the entire ordering code and the required transducer-system length before selection.

Manufacturer evidence

147385 Rev. R: NSv system purpose and applications pp. 1-2; probe materials, cable, connector, tensile and torque data p. 5; bend radius, thread engagement and probe temperature p. 6; pressure-seal conditions p. 7; ordering codes pp. 11-12; standard-mount identity p. 30; mounting notes p. 33. ApterPower installation and inspection guidance is separated from manufacturer ratings. The full ordering code controls the supplied probe execution.

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