01 INSTALLATION & COMMISSIONING

Bently Nevada 330103-00-14-05-02-00

01 / PLAN AND IDENTIFY THE WORK

Bently Nevada 330103-00-14-05-02-00 is a 3300 XL 8 mm metric proximity probe with an M10 x 1 case, no armor, 0 mm unthreaded length, 140 mm overall case length, 0.5 m standard cable and a miniature coaxial ClickLoc connector. It is the sensing element of a matched 3300 XL 8 mm proximity-transducer system.

Confirm the exact supplied probe

Base code 330103	M10 x 1 metric 3300 XL 8 mm probe without armor
00 / 14	0 mm unthreaded length / 140 mm overall case length
05	0.5 m total probe length
02	ClickLoc miniature coaxial connector; standard cable; no protector
00	Agency approval not required

Work boundary

Conductive target Shaft or flat target meeting the documented geometry	**330103-00-14-05-02-00** M10 x 1 non-armored probe with 0.5 m standard lead	**Extension cable + Proximitor** Completes the calibrated 1 m, 5 m or 9 m system chain

01 Capture the installed chain

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

Related Bently Nevada models

Bently Nevada 330103-00-03-10-02-00	Related 3300 XL probe; compare the complete execution
Bently Nevada 330104-00-03-05-02-00	Related 3300 XL probe; compare the complete execution

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02 / PRE-INSTALLATION READINESS

Readiness gate

Identity	All six model-code fields match the received probe and work order
Mounting	M10 x 1 engagement is no more than 15 mm
Routing	Bend radius remains at least 25.4 mm and the 0.5 m lead is supported
Connection	ClickLoc joint is clean, fully seated and protected from liquids

Torque plan

M10 x 1 case	11.2 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; 0.565 N m maximum

02 Inspect the probe

Reject damaged threads, a contaminated tip, a cut FEP jacket, a distorted lead or a damaged ClickLoc connector. Verify the 140 mm case can enter without bottoming and the 0.5 m lead reaches the planned joint.

03 Review process conditions

The standard probe range is -52 to +177 deg C. It uses a Viton O-ring pressure seal and is not pressure tested before shipment; sustained exposure below -34 deg C may cause premature seal failure. Review process containment independently.

Related Bently Nevada models

Bently Nevada 330103-00-20-10-02-00	Related 3300 XL probe; compare the complete execution
Bently Nevada 330104-02-10-10-02-00	Related 3300 XL probe; compare the complete execution

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03 / INSTALL AND CONNECT

04 Prepare the M10 x 1 mounting point

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

05 Secure the case

Apply the documented torque for the actual engagement. Use the intended flats or mounting feature; never use the cable or connector as a reaction point.

06 Route the lead

Maintain at least a 25.4 mm bend radius, support the cable against vibration and abrasion, and leave service allowance for a load-free ClickLoc joint.

07 Complete the ClickLoc joint

Option 02 supplies the miniature coaxial ClickLoc connector and standard cable without a connector protector. Keep the joint clean and dry, lock it finger tight, and never apply the probe-case torque value to the connector.

Mechanical acceptance

Mounting	M10 x 1 engagement is no more than 15 mm
Routing	Bend radius remains at least 25.4 mm and the 0.5 m lead is supported
Connection	ClickLoc joint is clean, fully seated and protected from liquids
System pairing	Probe, extension cable and Proximitor form the required total system length

Related Bently Nevada models

Bently Nevada 330103-01-07-05-02-00	Related 3300 XL probe; compare the complete execution
Bently Nevada 330104-00-10-10-02-CN	Related 3300 XL probe; compare the complete execution

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04 / GAP AND COMMISSION THE CHANNEL

08 Rebuild the approved system

The published scale factor, linearity and range belong to a complete 3300 XL 8 mm system under the stated test conditions. Do not assign those results to a loose probe without verifying extension cable, Proximitor Sensor, total length, target material and installed gap.

09 Establish the gap

Use the machine and 3300 XL procedure for target condition, static voltage and final gap. The system datasheet lists -9 Vdc at approximately 1.27 mm as the recommended radial-vibration gap under its stated conditions.

10 Verify channel response

After authorized energization, confirm stable proximity response and complete the machine-specific vibration, position, speed or phase-reference test assigned to the point.

Commissioning evidence

System pairing	Probe, extension cable and Proximitor form the required total system length
Acceptance	Gap, target and channel response meet the machine procedure
Identity record	Exact model, installed point and companion components
Mechanical record	Thread engagement, torque and cable-route inspection

11 Resolve abnormal response

Recheck target, gap, cable route, ClickLoc seating, extension length and Proximitor identity before replacing parts.

Related Bently Nevada models

Bently Nevada 330104-00-08-10-01-05	Related 3300 XL probe; compare the complete execution
Bently Nevada 330104-01-08-50-01-CN	Related 3300 XL probe; compare the complete execution

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05 / HANDOVER AND SERVICE QUESTIONS

Does 330103-00-14-05-02-00 include a connector protector?

No. Connector option 02 is the miniature coaxial ClickLoc connector with standard cable; the option table reserves the protector-equipped standard-cable version for option 01.

How much M10 x 1 thread engagement is allowed for 330103-00-14-05-02-00?

The maximum published engagement is 15 mm. Deeper engagement can bind the probe, so verify the tapped-hole depth before installation.

What cable-routing limits apply to 330103-00-14-05-02-00?

Keep the bend radius at or above 25.4 mm and avoid using the cable as a reaction point during installation. The maximum-rated probe-case-to-lead tensile strength is 330 N, but that rating is not a normal routing load.

What temperature and seal conditions apply to 330103-00-14-05-02-00?

The standard probe operating and storage range is -52 to +177 deg C. The probe uses a Viton O-ring pressure seal and is not pressure tested before shipment; sustained exposure below -34 deg C may cause premature seal failure.

Handover record

Identity record	Exact model, installed point and companion components
Mechanical record	Thread engagement, torque and cable-route inspection
Electrical record	System length, target calibration and stable proximity response
Functional record	Approved channel test and machine-specific acceptance result

Selection boundary

Related models are portfolio references. Similar thread, length or connector details do not establish interchangeability; compare every ordering field and the complete transducer-system requirement before selection.

Manufacturer evidence

141194 Rev. AN: system purpose and component chain pp. 1-2; electrical resistance p. 4; linear range and gap p. 5; target geometry p. 6; materials, cable, tensile, torque and bend-radius data p. 7; connector torque and thread engagement p. 8; temperature and seal conditions p. 9; exact metric ordering code pp. 13-14. ApterPower installation guidance is separated from manufacturer ratings. The complete ordering code controls the supplied probe execution.

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