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

COMPLETE PRODUCT INFORMATION

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.

Exact configuration

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

3300 XL measurement chain

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

Radial vibration

Measure dynamic shaft motion on fluid-film bearing machinery using the matched 3300 XL chain.

Axial position

Observe static thrust position where target geometry and probe separation meet the installation limits.

Keyphasor reference

Provide a non-contacting phase-reference signal from an approved rotating target arrangement.

Speed measurement

Support speed-related measurement where the target, gap and response are suitable for the application.

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Probe construction and identity

Probe Family	3300 XL 8 mm proximity probe
Probe Thread	M10 x 1
Armor	Without armor
Unthreaded Length	0 mm
Overall Case Length	140 mm
Total Probe Length	0.5 m (1.6 ft)
Connector	Miniature coaxial ClickLoc
Cable Type	Standard 75 ohm triaxial FEP-insulated cable
Connector Protector	Not included with option 02
Agency Approval Option	00 = Not required
Probe Tip Material	Polyphenylene sulfide (PPS)
Probe Case Material	AISI 303 or 304 stainless steel
Nominal Probe DC Resistance	7.45 ohm +/- 0.50 ohm for 0.5 m probe
Probe Lead Tensile Strength	330 N (75 lbf), maximum rated

Torque and engagement

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
M10 x 1 engagement	15 mm maximum; verify tapped depth

Cable and connector

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.

Related Bently Nevada models

Bently Nevada 330103-00-03-10-02-00	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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Environmental and system data

Maximum Thread Engagement	15 mm for M10 x 1
Probe Operating and Storage Temperature	-52 to +177 deg C (-62 to +350 deg F)
Pressure Seal	Viton O-ring; probe not pressure tested before shipment
System Linear Range	2 mm (80 mils), approximately 0.25 to 2.3 mm from target

Pressure-seal boundary

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.

Integration boundary

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.

Installed acceptance path

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
System pairing	Probe, extension cable and Proximitor form the required total system length
Acceptance	Gap, target and channel response meet the machine procedure

Related Bently Nevada models

Bently Nevada 330103-00-20-10-02-00	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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330103-00-14-05-02-00

01 / Identity

Match all six ordering fields before installation; a different case, cable, connector or approval code is a different execution.

02 / Thread depth

Limit M10 x 1 thread engagement to 15 mm and confirm the tapped-hole depth before inserting the 140 mm case.

03 / Case torque

Use 11.2 N m as the recommended case torque and never exceed the 33.9 N m maximum rating.

04 / Connector torque

Treat connector torque separately: finger tight is recommended and 0.565 N m is the published maximum.

05 / Cable route

Maintain at least a 25.4 mm cable bend radius and keep routing loads below the probe-lead rating.

06 / Liquid protection

Protect the ClickLoc connection from contamination and liquid entry because option 02 does not include a connector protector.

07 / Seal duty

Review the pressure-seal duty and process medium; the Viton-sealed probe is not pressure tested before shipment.

08 / System pairing

Confirm target material, gap, extension cable and Proximitor identity before accepting the channel response.

Related Bently Nevada models

Bently Nevada 330103-01-07-05-02-00	Related 3300 XL probe; compare the complete execution
Bently Nevada 330104-00-08-10-01-05	Related 3300 XL probe; compare the complete execution

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330103-00-14-05-02-00

What configuration is encoded by 330103-00-14-05-02-00?

It is a 3300 XL 8 mm probe with an M10 x 1 thread and no armor. The suffix selects 0 mm unthreaded length, a 140 mm overall case, a 0.5 m standard cable, a ClickLoc connector without protector, and no agency-approval option.

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.

Which components complete the system for 330103-00-14-05-02-00?

Use the probe with the matching 3300 XL extension cable and 3300 XL Proximitor Sensor for the required total system length. Confirm AISI 4140 target calibration or obtain the correct calibration for another target material.

Related-product 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.

Related Bently Nevada models

Bently Nevada 330104-00-03-05-02-00	Related 3300 XL probe; compare the complete execution
Bently Nevada 330104-01-08-50-01-CN	Related 3300 XL probe; compare the complete execution

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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