Bently Nevada 330101-00-28-10-02-CN

ENGINEERING GUIDE / FIELD REPLACEMENT AND COMMISSIONING

Bently Nevada 330101-00-28-10-02-CN is a 3300 XL 8 mm proximity probe with 3/8-24 UNF case thread and without armor. It is the probe segment of a matched noncontact shaft measurement chain.

01 Job scope and safe-work boundary

The offered item is the 3300 XL 8 mm probe with its integral 1.0 m lead. Confirm extension cable, 3300 XL 8 mm Proximitor Sensor and mounting accessories separately in the quotation.

Complete marking	Read 330101-00-28-10-02-CN as 330101 plus order groups 00 / 28 / 10 / 02 / CN; verify case, cable and approval groups against the installed marking.
Installed-system context	The 3300 XL 8 mm probe senses shaft-to-tip gap as one part of a probe, extension cable and 3300 XL 8 mm Proximitor Sensor chain.
Pre-work record	Send the complete 330101-00-28-10-02-CN marking and installed-system identifiers for technical review.

Before work starts

Follow the approved site isolation and machinery protection procedure. Record the removed item, connected chain and original channel behavior before disconnecting anything.

Configuration limits

Probe system	3300 XL 8 mm
Probe tip family	8 mm
Case thread	3/8-24 UNF
Cable armor	without armor
Unthreaded length	0.0 in
Overall case length	2.8 in

02 Readiness and fit

Read all code groups	Compare every group of 330101-00-28-10-02-CN with the removed part; a shared base number does not establish equal cable or case length.
Check mounting geometry	Confirm 3/8-24 UNF, 0.0 in unthreaded section and 2.8 in case against the bracket and target.
Match electrical length	Combine the 1.0 m probe lead with the extension cable and check the 3300 XL 8 mm Proximitor Sensor system-length marking.
Inspect ClickLoc	Keep the connector clean and verify the specified connector-protector arrangement before closing the joint.

Review site approval	Treat the order-code approval group as CN country-specific option; confirm label; compare the physical label with the site requirement.
Prove the channel	Record target condition, gap indication and a controlled dynamic or position response after fitting.

Why these checks matter

Physical interface	Confirm 3300 XL 8 mm target and monitor suitability; compare the original probe angle and bracket clearance.
Complete-system match	Check target travel and the calibrated system range before setting the mechanical gap.
Site approval	Treat the order-code approval group as CN country-specific option; confirm label; compare the physical label with the site requirement.

03 Replacement sequence

01 Record baseline	Send the complete 330101-00-28-10-02-CN marking and installed-system identifiers for technical review.
02 Compare offered identity	Compare every order group of 330101-00-28-10-02-CN with the installed item and the applicable Bently Nevada system documentation.
03 Prepare interfaces	Confirm 3/8-24 UNF, 0.0 in unthreaded section and 2.8 in case against the bracket and target.
04 Fit and reconnect	Combine the 1.0 m probe lead with the extension cable and check the 3300 XL 8 mm Proximitor Sensor system-length marking.
05 Inspect connection	Keep the connector clean and verify the specified connector-protector arrangement before closing the joint.
06 Prove operation	Record target condition, gap indication and a controlled dynamic or position response after fitting.
07 Keep as-left record	Change or reselect it when the existing cable and offered probe do not provide the sensor-required electrical length, or when connector/cable condition fails inspection.

Installed-system relationship

The integral 1.0 m probe lead terminates in a miniature coaxial ClickLoc connector without connector protector. An extension cable completes the electrical run to the 3300 XL 8 mm Proximitor Sensor; select the probe and cable lengths for the matching sensor system length. A mechanically fitting connector alone does not establish an electrically matched chain.

Application checks

Radial vibration and position	Confirm 3300 XL 8 mm target and monitor suitability; compare the original probe angle and bracket clearance.

Axial position review	Check target travel and the calibrated system range before setting the mechanical gap.
Speed or phase reference	Use a suitable target feature and compatible monitor channel; prove the event under controlled operation.
Installed-chain replacement	Match 3/8-24 UNF, 2.8 in case, 1.0 m lead, ClickLoc option and full approval marking.

04 Commissioning and acceptance

Identity and fit	Compare every order group of 330101-00-28-10-02-CN with the installed item and the applicable Bently Nevada system documentation.
Connection continuity	Keep the connector clean and verify the specified connector-protector arrangement before closing the joint.
Configuration review	These option meanings apply to the offered 330101-00-28-10-02-CN; system performance requires a matched 3300 XL 8 mm probe, extension cable and 3300 XL 8 mm Proximitor Sensor.
Dynamic proof	Record target condition, gap indication and a controlled dynamic or position response after fitting.
Handover	Change or reselect it when the existing cable and offered probe do not provide the sensor-required electrical length, or when connector/cable condition fails inspection.

Acceptance by application

Radial vibration and position	Confirm 3300 XL 8 mm target and monitor suitability; compare the original probe angle and bracket clearance.
Axial position review	Check target travel and the calibrated system range before setting the mechanical gap.
Speed or phase reference	Use a suitable target feature and compatible monitor channel; prove the event under controlled operation.
Installed-chain replacement	Match 3/8-24 UNF, 2.8 in case, 1.0 m lead, ClickLoc option and full approval marking.

Engineering questions

How should the installed measurement chain be matched when replacing 330101-00-28-10-02-CN?	Check the probe lead and extension cable lengths together against the 3300 XL 8 mm Proximitor Sensor marking, then compare the monitor channel configuration.
Why might 330101-00-28-10-02-CN fit a bracket but still produce the wrong gap reading?	3/8-24 UNF fit does not verify electrical length, target material, sensor calibration or gap. Compare the full chain and measure the baseline output before return to service.

What should be checked before setting the gap on 330101-00-28-10-02-CN?	Confirm the 2.8 in case reaches the intended target without collision, then use the site-approved static target position and monitor procedure.
How is the ClickLoc joint on 330101-00-28-10-02-CN checked after assembly?	Inspect contact cleanliness and full engagement, provide strain relief, and confirm the specified connector-protector arrangement matches the order group.

05 Fault isolation and handover

Can a different approval suffix be assumed equivalent to 330101-00-28-10-02-CN?	No. Compare the physical approval marking, installation drawing and site classification before selecting a suffix for a controlled area.
How should a noisy channel be isolated after installing 330101-00-28-10-02-CN?	Inspect target condition, ClickLoc joint, routing and shielding, then compare the probe-extension-sensor chain and monitor input under the approved diagnostic procedure.
What evidence is useful when accepting 330101-00-28-10-02-CN as a replacement?	Retain full component markings, installed geometry, target and baseline gap reading, plus a controlled response from the monitoring channel.
When should the extension cable be changed along with 330101-00-28-10-02-CN?	Change or reselect it when the existing cable and offered probe do not provide the sensor-required electrical length, or when connector/cable condition fails inspection.

Final record

Change or reselect it when the existing cable and offered probe do not provide the sensor-required electrical length, or when connector/cable condition fails inspection.

Evidence and applicability

Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN. Exact order groups follow the manufacturer ordering table. Operating values apply to a matched complete probe, extension cable and Proximitor Sensor chain. The CN suffix is a country-specific ordering option; verify its approval scope on the offered label.

Related product references

Catalogue navigation only; compare the complete installed configuration before selection.

Bently Nevada 330101-04-36-05-02-05

Bently Nevada 330102-00-32-10-02-00

Bently Nevada 330909-00-30-10-02-00

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