Bently Nevada 330101-00-20-10-12-05

Engineering Installation, Diagnostic and Acceptance Guide

Bently Nevada 330101-00-20-10-12-05 is a compact 3/8-24 probe with a 2.0 in case and 1.0 m unarmored FluidLoc lead for a matched 3300 XL 8 mm channel.

01 Job scope and identity

Complete model	330101-00-20-10-12-05
Product type	3300 XL 8 mm proximity probe
Manufacturer	Bently Nevada
Technical source	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AL

Field decisions

1 Freeze the installed datum

Restore the measured 2.0 in case seating and locknut position without bottoming the compact 3/8-24 port.

2 Inspect the selected body

A standard-cable option or different case length can appear similar but changes the exposure boundary or sensing-face datum.

3 Rebuild the lead route

Protect and independently support the 1.0 m unarmored FluidLoc lead along the approved liquid-exposure route.

4 Close the coaxial joint

Treat the unprotected miniature ClickLoc as a dry service joint even though the probe cable uses FluidLoc construction.

5 Demonstrate the channel

After the FluidLoc route is secured, confirm stable bias and compare the complete channel with the accepted machine baseline.

Installation relationships

Mechanical datum	Match 0.0 in unthreaded reach and 2.0 in case to the port depth, bracket position and expected target travel.
Electrical chain	Use the 1.0 m probe lead only with the extension cable and Proximitor that reproduce the installed total length.
Resistance and response	Use 5.9 +/-0.5 ohm only as an isolated diagnostic reference; gap and dynamic acceptance still require the complete channel.

Pre-work evidence

Removal reference	Photograph 330101-00-20-10-12-05, measure the installed locknut or bracket datum and record probe position before loosening it.
Port evidence	Restore the measured 2.0 in case seating and locknut position without bottoming the compact 3/8-24 port.
Lead evidence	Protect and independently support the 1.0 m unarmored FluidLoc lead along the approved liquid-exposure route.
Connector evidence	Treat the unprotected miniature ClickLoc as a dry service joint even though the probe cable uses FluidLoc construction.
Baseline evidence	After the FluidLoc route is secured, confirm stable bias and compare the complete channel with the accepted machine baseline.

02 Pre-installation readiness

Model-specific installation decisions

Exact identity

330101-00-20-10-12-05 and every delivered revision or approval marking must be recorded before removal.

Installed system

3300 XL 8 mm proximity transducer system companion components, channel assignment and approved machine reference must remain traceable.

Mechanical baseline

Record the as-found mounting datum, reach, lock position, target clearance, routing and connector support.

Electrical baseline

Record the applicable stopped-machine gap, bias, continuity or channel value together with test conditions.

As-left configuration

Document the final mechanical position, cable protection, connector condition and complete companion-component identities.

Functional release

Compare the final monitor indication and controlled operating response with the approved baseline before handover.

Installation precautions

Confirm the 2.0 in tip datum

Measure port depth and locknut position before replacing another 3/8-24 case length.

Do not confuse FluidLoc with a sealed joint

The cable construction is liquid resistant, but the ClickLoc interface still requires a dry protected location.

Support the unarmored lead

Prevent abrasion and tensile load along the 1.0 m route.

Keep chemicals off the connector

Route the joint away from direct spray and inspect both mating surfaces before connection.

Reconcile cable option 12

Check the full marking so a standard-cable or protector variant is not accepted by appearance.

Stabilize output after routing

A bias shift after clamping can indicate cable stress, connector contamination or changed gap.

Pre-installation release gates

Geometry gate	A standard-cable option or different case length can appear similar but changes the exposure boundary or sensing-face datum.
Route gate	Protect and independently support the 1.0 m unarmored FluidLoc lead along the approved liquid-exposure route.
Joint gate	Treat the unprotected miniature ClickLoc as a dry service joint even though the probe cable uses FluidLoc construction.
Companion-chain gate	The marked probe lead, extension cable and Proximitor system-length option reconcile to the installed record.
Return-to-service gate	After the FluidLoc route is secured, confirm stable bias and compare the complete channel with the accepted machine baseline.

03 Installation and commissioning

Controlled installation sequence

01 Record	Capture the complete 330101-00-20-10-12-05 marking, port datum, companion identities and pre-work channel value.
02 Compare	A standard-cable option or different case length can appear similar but changes the exposure boundary or sensing-face datum.
03 Position	Restore the measured 2.0 in case seating and locknut position without bottoming the compact 3/8-24 port.
04 Route	Protect and independently support the 1.0 m unarmored FluidLoc lead along the approved liquid-exposure route.
05 Connect	Treat the unprotected miniature ClickLoc as a dry service joint even though the probe cable uses FluidLoc construction.
06 Prove	After the FluidLoc route is secured, confirm stable bias and compare the complete channel with the accepted machine baseline.

Commissioning acceptance criteria

Mechanical result	Restore the measured 2.0 in case seating and locknut position without bottoming the compact 3/8-24 port.
Cable result	Protect and independently support the 1.0 m unarmored FluidLoc lead along the approved liquid-exposure route.
Connector result	Treat the unprotected miniature ClickLoc as a dry service joint even though the probe cable uses FluidLoc construction.
Electrical-length result	Probe lead plus extension cable agrees with the installed Proximitor system-length selection.
Functional result	After the FluidLoc route is secured, confirm stable bias and compare the complete channel with the accepted machine baseline.

04 Diagnostics and escalation

What installation benefit does the 2.0 in case provide for 330101-00-20-10-12-05?	It fits compact 3/8-24 brackets while preserving a short, documented sensing-face datum; the actual port depth and target travel still govern seating.

What does FluidLoc option 12 change on 330101-00-20-10-12-05?	It selects the liquid-resistant probe cable without a connector protector, so the lead construction differs from standard option 02 and protected option 11.
Can the ClickLoc of 330101-00-20-10-12-05 be placed in direct process spray?	No assumption should be made from the FluidLoc name; keep the joint clean, dry and mechanically supported in the approved enclosure or route.
How should a bias change after routing 330101-00-20-10-12-05 be investigated?	Release cable strain, inspect the unprotected ClickLoc, reconfirm the gap and compare the probe resistance before disturbing the extension cable or Proximitor.

Additional diagnostic decisions

Why is option 02 not equivalent to option 12 on 330101-00-20-10-12-05?	Option 02 is standard cable, whereas option 12 is FluidLoc; the route and exposure controls must follow the delivered construction.
Which mechanical record is most important before removing 330101-00-20-10-12-05?	Capture the 2.0 in body seating, locknut position, target clearance and lead exit direction so the compact datum can be restored.
How is the complete channel accepted after installing 330101-00-20-10-12-05?	Reconcile total electrical length, restore gap or bias, secure the FluidLoc route and compare static and controlled monitor response with the baseline.
What evidence distinguishes 330101-00-20-10-12-05 at handover?	Retain the full option-12 marking, connector protection arrangement, 2.0 in seating datum, lead route, as-left bias and channel proof.

05 Handover and evidence package

Model-specific handover evidence

Identity	Photographs of the complete 330101-00-20-10-12-05 marking and delivered connector end.
Mechanical	Restore the measured 2.0 in case seating and locknut position without bottoming the compact 3/8-24 port.
Route	Protect and independently support the 1.0 m unarmored FluidLoc lead along the approved liquid-exposure route.
Signal path	Probe, extension cable, Proximitor and monitor-channel identities recorded as one chain.
Acceptance	After the FluidLoc route is secured, confirm stable bias and compare the complete channel with the accepted machine baseline.

Model-specific application limits

Mounting	3/8-24 UNF-2A; 0.0 in / 2.0 in
Probe lead	1.0 m
Probe resistance	5.9 +/-0.5 ohm
Matched-system range	2.0 mm
Matched-system scale	7.87 V/mm

Verified related product references

Related product	Bently Nevada 330104-00-16-10-02-00
Related product	Bently Nevada 330500-00-01
Related product	Bently Nevada 330980-70-CN
Related product	Bently Nevada 330930-040-03-00

Engineering contact

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