Bently Nevada 330701-00-40-10-11-05

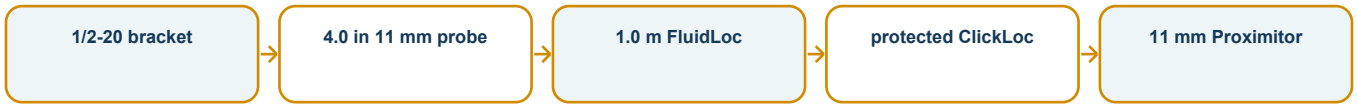
Engineering Installation, Diagnostic and Acceptance Guide

Bently Nevada 330701-00-40-10-11-05 is an unarmored 1/2-20 probe with a 4.0 in case, 1.0 m FluidLoc lead and connector protector for a 3300 XL 11 mm system.

01 Job boundary

Exact product	Bently Nevada 330701-00-40-10-11-05
Documented role	3300 XL 11 mm proximity probe
Configuration question	How is a four-inch 1/2-20 case installed without over-engagement or cross-talk?
System family	3300 XL 11 mm proximity transducer system

Configuration chain



The long inch-thread probe is suited to documented 11 mm bearing and thrust locations that require a 4.0 in case and provide protected space for a FluidLoc ClickLoc junction.

Before work starts

Thread engagement
Keep 1/2-20 engagement at or below the documented 0.750 in limit and verify support for the remaining 4.0 in case.

Protected FluidLoc joint
Inspect protector seating, maintain the 25.4 mm bend radius and clamp the unarmored 1.0 m lead independently.

Cross-talk review
Confirm target diameter, shaft diameter and spacing to adjacent probes before using the full 4.0 mm measurement region.

02 Pre-installation identity and fit

Decode every segment before disturbing the installed channel; the sequence below is specific to this order code.

330701	1/2-20 probe without armor
00	0.0 in unthreaded reach
40	4.0 in overall case
10	1.0 m integral lead
11	FluidLoc cable with connector protector
05	multiple approvals

Release gates before removal

Marking	Read the complete 330701-00-40-10-11-05 identity and every approval or revision mark.
Mechanical datum	1/2-20 UNF, 0.0 in unthreaded reach and 4.0 in overall case.
Lead architecture	1.0 m unarmored FluidLoc lead with ClickLoc connector protector.
Companion chain	Bently Nevada datasheet 146256 Rev. T defines the inch-thread order fields and 11 mm system limits. Performance values apply only to a complete matched chain on the stated target.
Baseline	Record the as-found gap or bias and monitor indication before disconnection.

Hold point

Stop when any order-code segment, installed datum or companion identity cannot be reconciled with the maintenance record.

03 Controlled installation sequence

Step 1	Measure engagement Keep usable 1/2-20 engagement at or below the documented 0.750 in limit.
Step 2	Check body support Verify the remaining 4.0 in case is supported without bending load.
Step 3	Map probe spacing Record target diameter and neighboring-tip separation before gap adjustment.
Step 4	Close the protected joint Seat the protector while keeping the FluidLoc lead strain-free.
Step 5	Sweep required travel Prove the needed displacement span around the 2.5 mm operating point.

Installation-specific cautions

Limit thread engagement
More than 0.750 in of 1/2-20 engagement can bind the probe body; verify the mounting boss before installation.

Support the long case
Check bracket stiffness and clearance so the 4.0 in body is not used as a structural member.

Protect the unarmored FluidLoc lead
Prevent abrasion and tension even though the cable jacket is selected for fluid resistance.

Seat the connector protector
Confirm full protector engagement without twisting the ClickLoc contacts or trapping contamination.

Review cross-talk geometry
Confirm target and shaft diameter plus separation from adjacent probes before final gap setting.

Verify the full travel region
Prove the required displacement span against Proximitor output and monitor indication before return to service.

04 Commissioning and fault isolation

Use the first observable symptom to choose the next check; do not replace the Proximitor or monitor before isolating the probe-side configuration.

Observed condition	Model-specific next check
Probe binds during threading	Stop and measure engagement; do not force beyond 0.750 in.
Neighboring channel changes with motion	Review target diameter and probe-to-probe cross-talk geometry.
Protector movement shifts bias	Re-route and support the unarmored FluidLoc lead.
Travel becomes nonlinear	Check target size, gap region and matched 11 mm companion components.

Acceptance questions

Why is the 0.750 in engagement limit important for 330701-00-40-10-11-05?	Its 1/2-20 case can bind when the mounting thread is too deep; measure usable engagement and support the remaining 4.0 in body.
How does the option 11 termination affect installation of 330701-00-40-10-11-05?	It combines a FluidLoc lead with a connector protector, requiring both a protected joint envelope and independent support for the unarmored cable.
What cross-talk checks are needed around 330701-00-40-10-11-05?	Review flat-target size, shaft diameter and tip separation from neighboring probes, then compare static outputs before functional testing.
Which system length can be used with 330701-00-40-10-11-05?	Use the 1.0 m probe only with the extension cable and 11 mm Proximitor that complete the installed five- or nine-meter chain.
How should the recommended gap for 330701-00-40-10-11-05 be verified?	Set the approved stopped-machine datum near 2.5 mm or its accepted bias equivalent and verify usable travel on both sides.
Does FluidLoc cable make the connector of 330701-00-40-10-11-05 submersible?	No; keep the ClickLoc joint and protector clean, dry and correctly seated while applying the cable construction only within its documented route.
What indicates a mounting problem after fitting 330701-00-40-10-11-05?	A shifted bias, unstable reading or poor repeatability can result from excessive engagement, case loading, target geometry or cross-talk.
What must the handover record include for 330701-00-40-10-11-05?	Record engagement depth, case support, protected-joint condition, companion identities, gap or bias and verified long-range channel response.

05 Handover package

Complete marking	330701-00-40-10-11-05
Mechanical result	1/2-20 UNF, 0.0 in unthreaded reach and 4.0 in overall case.
Lead or interface result	1.0 m unarmored FluidLoc lead with ClickLoc connector protector.
Static datum	Record final gap or bias with machine state and instrument.
Functional proof	Record Proximitor output and monitor response during the approved controlled test.
Deviation record	List any variance, responsible reviewer and release decision.
Maintenance evidence	Attach photographs, measurements and the final companion-component identities.

Model-specific closeout limits

Thread limit	1/2-20; maximum engagement 0.750 in
Case	0.0 in unthreaded / 4.0 in overall
Lead	1.0 m FluidLoc, unarmored
Joint	ClickLoc with protector
Acceptance	Cross-talk geometry plus 4.0 mm response

Verified related product references

Bently Nevada 330500-01-04	Velomitor piezo-velocity sensor
Bently Nevada 330704-000-060-90-02-CN	3300 XL 11 mm proximity probe
Bently Nevada 330104-00-10-20-12-05	3300 XL 8 mm proximity probe
Bently Nevada 330703-020-110-10-01-05	3300 XL 11 mm proximity probe

Engineering contact
Discuss the exact marking, installed geometry and companion chain with Apter Power.

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