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

Complete Product Information

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 Configuration dashboard

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

Order-code interpretation

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

Installed signal path



This inch-thread 11 mm configuration combines a long 4.0 in case with a protected FluidLoc joint, so usable thread engagement and connector-envelope clearance must be reviewed together.

02 Mechanical and electrical evidence

Probe family	3300 XL 11 mm
Mounting thread	1/2-20 UNF
Cable armor	No armor
Unthreaded length	0.0 in
Overall case length	4.0 in
Total probe length	1.0 m
Connector	ClickLoc with connector protector, FluidLoc cable
Approval selection	Multiple approvals

Nominal probe resistance	5.9 ±0.5 ohm
Recommended gap	2.5 mm (100 mil)
Matched-system frequency response	0 to 8 kHz, +0/-3 dB typical
Probe cable impedance	75 ohm triaxial
Reference target	AISI 4140 steel, 31 mm diameter or larger
Minimum bend radius	25.4 mm
Probe temperature	-52 to +177 deg C operating and storage

Engineering interpretation

The 1/2-20 body uses a 4.0 in case with no unthreaded section, while the documented maximum thread engagement for this thread is 0.750 in. The installed bracket must position the remaining case length without binding or shifting the 11 mm sensing face outside the required target travel.

The 1.0 m FluidLoc lead is unarmored and terminates through a connector protector. FluidLoc construction does not remove the need for bend control and strain relief, and the protector must remain accessible for inspection without loading the coaxial contacts.

A matched 11 mm chain provides 4.0 mm linear range from approximately 0.5 to 4.5 mm and uses a 2.5 mm recommended gap under the stated reference conditions. Close probe spacing or a small shaft can introduce cross-talk, so geometry and channel response must be proven together.

Evidence boundary

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.

03 Application decisions and release controls

Long-reach radial vibration
Use at an inch-thread bearing location where the 4.0 in case reaches the shaft and surrounding probe spacing satisfies the 11 mm geometry.

Thrust-position channel
Apply to an approved axial target with enough travel around the recommended 2.5 mm gap and controlled cross-talk.

Fluid-prone local route
Use the FluidLoc lead where specified, while retaining a dry, accessible protected ClickLoc junction.

Inch-thread installed-base renewal
Match the 1/2-20 thread, long case, protector and multiple-approval code when replacing the channel.

Product-specific precautions

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.

Engineering decision matrix

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.

04 Installed-base record and support

Lifecycle context

Complete-code status	The lifecycle phase of 330701-00-40-10-11-05 is not established here from the broader 3300 XL 11 mm family.
Installed-chain support	Continued use depends on the original 1/2-20 mounting, 4.0 in case and matching five- or nine-meter 11 mm electrical chain.
Connector-protector boundary	A replacement without FluidLoc cable or without the option 11 protector changes environmental and mechanical handling.
Supply boundary	Exact-unit availability is confirmed by quotation and is separate from manufacturer lifecycle classification.

Verified related product references

Bently Nevada 330130-070-02-05	3300 XL 8 mm extension cable
Bently Nevada 21747-085-01	7200 Series armored extension cable
Bently Nevada 330500-01-04	Velomitor piezo-velocity sensor

Available unit details

Offered reference	Bently Nevada 330701-00-40-10-11-05 inch-thread 3300 XL 11 mm probe.
Identity check	Verify 00/40 case geometry, 10 lead, option 11 protected FluidLoc cable and final 05 approval selection.
Included items	One 11 mm probe is included; extension cable, Proximitor Sensor, monitor and brackets are separate unless itemized.

Additional exact-model decisions

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.

Diagnostic interpretation

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 evidence

Mechanical evidence	1/2-20 UNF, 0.0 in unthreaded reach and 4.0 in overall case. Record the final installed datum.
Lead evidence	1.0 m unarmored FluidLoc lead with ClickLoc connector protector. Retain route and termination photographs.
Functional evidence	Confirm engagement depth, protected FluidLoc routing and cross-talk-free long-range response before release.

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

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