Bently Nevada 330704-000-060-90-02-CN

Complete Product Information

Bently Nevada 330704-000-060-90-02-CN is an armored M14 x 1.5 probe with a 60 mm case and 9.0 m standard lead for a long-run 3300 XL 11 mm channel.

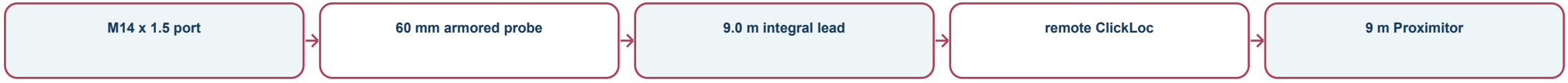
01 Configuration dashboard

Exact product	Bently Nevada 330704-000-060-90-02-CN
Documented role	3300 XL 11 mm proximity probe
Configuration question	How is a direct nine-meter armored probe route verified without adding an unnecessary joint?
System family	3300 XL 11 mm proximity transducer system

Order-code interpretation

330704	M14 x 1.5 probe with armor
000	0 mm unthreaded reach
060	60 mm overall case
90	9.0 m integral lead
02	standard ClickLoc, no protector
CN	country-specific suffix; verify delivered marking

Installed signal path



The 9.0 m integral armored lead distinguishes 330704-000-060-90-02-CN from the other 11 mm probes and makes route planning, resistance and connector location central to acceptance.

02 Mechanical and electrical evidence

Probe family	3300 XL 11 mm
Mounting thread	M14 x 1.5
Cable armor	Stainless-steel armor
Unthreaded length	0 mm
Overall case length	60 mm
Total probe length	9.0 m
Connector	ClickLoc, standard cable without connector protector
Approval selection	CN suffix retained; verify delivered approval marking

Nominal probe resistance	8.5 ±1.1 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 M14 x 1.5 body uses a comparatively short 60 mm case with no unthreaded standoff. Thread engagement remains limited to 21 mm, leaving the installed boss and target datum to determine how the sensing face is positioned.

The 9.0 m integral lead can form the complete probe-side electrical length without an added extension cable when matched to the corresponding 9 m Proximitor configuration. Its stainless armor needs planned clamps and bend space; the option 02 ClickLoc joint still requires a clean protected termination area.

For the 9.0 m probe selection, nominal probe resistance is 8.5 ±1.1 ohm and the matched 11 mm response remains 4.0 mm at 3.94 V/mm under stated conditions. Confirm the CN marking, continuity, long-route integrity and channel response as separate acceptance gates.

Evidence boundary

Bently Nevada datasheet 146256 Rev. T supports the 330704 armored metric order structure, 9.0 m lead and 11 mm system data. Verify the delivered CN approval marking.

03 Application decisions and release controls

Remote 9 m Proximitor route
Use where the machine design calls for a long integral probe lead to a remote matching 9 m Proximitor Sensor.

Armored machinery run
Apply along an approved route needing stainless-steel cable protection and planned support points.

Short-case metric port
Use the 60 mm M14 x 1.5 body where the target is reached without a separate unthreaded standoff.

CN-marked installed-base renewal
Match the full CN suffix, integral lead architecture and approval label when replacing the existing unit.

Product-specific precautions

Do not add an extension cable automatically First confirm the installed nine-meter architecture because this probe already carries a 9.0 m integral lead.	Plan the entire armored route Locate clamps and bends before mounting; the long armor can transmit torque back to the short case.	Limit metric thread engagement Keep M14 x 1.5 engagement within 21 mm to prevent case binding.
Protect the option 02 joint The ClickLoc termination has no connector protector; keep it clean, dry and mechanically unloaded.	Verify the CN marking Do not assign approval coverage from the suffix alone; compare the delivered label with the project requirement.	Test long-route integrity Record resistance, static output and controlled displacement response before releasing the remote channel.

Engineering decision matrix

Does 330704-000-060-90-02-CN normally require a separate extension cable?	Its selected probe lead is already 9.0 m, so first verify the recorded architecture and matching 9 m Proximitor before adding any extension cable.
How should the 9.0 m armor of 330704-000-060-90-02-CN be installed?	Pre-plan supports and bends, maintain at least 25.4 mm radius and prevent the route from applying torque or tension to the 60 mm case.
What does the CN suffix require the technician to verify on 330704-000-060-90-02-CN?	Retain the full suffix and inspect the actual delivered approval marking; the suffix alone is not a substitute for the label.
Which resistance result is expected for the long lead on 330704-000-060-90-02-CN?	The nominal probe resistance is 8.5 ±1.1 ohm, useful for continuity diagnosis before connecting the Proximitor.

04 Installed-base record and support

Lifecycle context

Country-suffix status	The lifecycle phase of complete marking 330704-000-060-90-02-CN is not established from the base 330704 family alone.
Nine-meter architecture	Installed support depends on retaining the direct 9.0 m probe lead and its matching 9 m 11 mm Proximitor configuration.
Route-specific replacement	A one-meter probe plus extension cable is a different architecture even if its total length can also reach nine meters.
Supply boundary	The CN-marked unit, actual approval label and supply scope are confirmed in quotation independently of lifecycle classification.

Verified related product references

Bently Nevada 21747-085-01	7200 Series armored extension cable
Bently Nevada 330500-01-04	Velomitor piezo-velocity sensor
Bently Nevada 330701-00-40-10-11-05	3300 XL 11 mm proximity probe

Available unit details

Offered reference	Bently Nevada 330704-000-060-90-02-CN armored metric 3300 XL 11 mm probe.
Identity check	Verify 000/060 geometry, 90 integral lead, option 02 standard ClickLoc termination and the complete CN suffix.
Included items	One 9.0 m armored probe is included; matching 9 m Proximitor, monitor and route hardware require separate confirmation.

Additional exact-model decisions

Why is option 02 a maintenance concern on 330704-000-060-90-02-CN?	It uses a standard ClickLoc termination without a protector, so the remote joint needs its own clean, dry and strain-relieved location.
How is the short 60 mm case of 330704-000-060-90-02-CN positioned safely?	Limit M14 x 1.5 engagement to 21 mm, verify the zero-standoff datum and ensure the armored route does not rotate the body.
What proves the complete 9 m channel after installing 330704-000-060-90-02-CN?	Confirm the Proximitor length option, record static gap or bias and test the required displacement response against the monitor baseline.
Which architecture difference blocks a direct substitute for 330704-000-060-90-02-CN?	A shorter probe plus extension cable changes the number and location of joints, resistance distribution and route even if the nominal total length is nine meters.

Diagnostic interpretation

Unexpected extra connection in route	Check whether an extension cable was added to the already nine-meter probe.
Resistance higher than expected	Inspect the long armored lead and remote ClickLoc joint before replacing electronics.
Short case rotates during clamping	Release armor torque and reposition route supports.
Approval status is ambiguous	Use the delivered label and full CN marking; do not infer coverage from family data.

Acceptance evidence

Mechanical evidence	M14 x 1.5, 0 mm unthreaded length and 60 mm overall case. Record the final installed datum.
Lead evidence	9.0 m standard 75 ohm triaxial lead with stainless-steel armor and ClickLoc termination. Retain route and termination photographs.
Functional evidence	Confirm the direct 9 m architecture, CN label and supported armored route before release.

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

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