Bently Nevada 330104-00-10-20-12-05

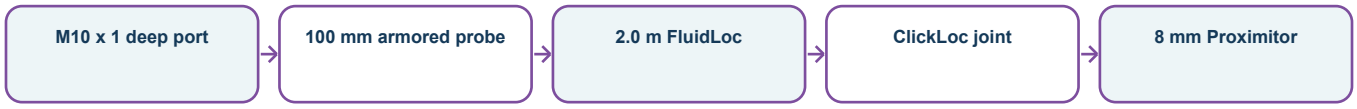
Engineering Installation, Diagnostic and Acceptance Guide

Bently Nevada 330104-00-10-20-12-05 is an armored M10 x 1 probe with a 100 mm case and 2.0 m FluidLoc lead for a 3300 XL 8 mm matched measurement chain.

01 Job boundary

Exact product	Bently Nevada 330104-00-10-20-12-05
Documented role	3300 XL 8 mm proximity probe
Configuration question	How are a 100 mm case and a two-meter armored FluidLoc route kept mechanically neutral?
System family	3300 XL 8 mm proximity transducer system

Configuration chain



This long-case armored FluidLoc probe serves documented wet, abrasive or difficult routing locations where a 100 mm metric body and 2.0 m integral lead are specifically required.

Before work starts

Long-body support
Assess 100 mm case engagement and cantilevered length so the installed bracket does not load or resonate the probe body.

Armored route
Support the stiffer 2.0 m FluidLoc lead before the miniature ClickLoc joint and preserve the 25.4 mm minimum bend radius.

Resistance diagnostic
Use the 11.4 +/-0.5 ohm reference to isolate lead faults, then complete gap and dynamic-channel acceptance.

02 Pre-installation identity and fit

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

330104	M10 x 1 forward probe with armor
00	0 mm unthreaded reach
10	100 mm overall case
20	2.0 m integral lead
12	FluidLoc cable, no connector protector
05	multiple approvals

Release gates before removal

Marking	Read the complete 330104-00-10-20-12-05 identity and every approval or revision mark.
Mechanical datum	M10 x 1 forward mount with 0 mm unthreaded option and a 100 mm overall case.
Lead architecture	2.0 m miniature ClickLoc FluidLoc cable with stainless-steel armor and no protector.
Companion chain	Bently Nevada datasheet 141194 Rev. AL supports the 330104 metric armor, 100 mm case, 2.0 m FluidLoc option and resistance. System range and scale require the complete matched chain.
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	Review deep reach Compare the 100 mm case with port depth, bracket stiffness and target position.
Step 2	Pre-form the armored route Lay out bends and clamps before tightening the probe body.
Step 3	Seat and support Install the M10 x 1 case, then clamp armor so it cannot twist the body.
Step 4	Protect the bare joint Place the option 12 ClickLoc interface in a clean, dry enclosure.
Step 5	Complete dynamic proof Record resistance, gap and controlled monitor response after routing is final.

Installation-specific cautions

Check unsupported case length
A 100 mm body can amplify mechanical loading; verify bracket stiffness and final lock arrangement.

Do not pull on the armor
Armor protects the cable surface but must not be used as a pulling member or connector strain relief.

Protect the unshielded joint
Option 12 has no connector protector; place the ClickLoc interface in a clean, dry protected location.

Respect route stiffness
Plan bends and clamps before seating the probe so the armored lead does not torque the M10 x 1 body.

Verify FluidLoc selection
Do not replace the FluidLoc option with standard cable solely because the connector fits.

Complete a dynamic proof
After the static gap is restored, verify the monitor response through the site's controlled operating check.

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
Static value changes with cable movement	Remove armor-induced torque and add route support.
Connector contamination	Clean and dry the unprotected option 12 joint before reconnection.
Probe resistance is abnormal	Compare the isolated result with 11.4 ±0.5 ohm and inspect the two-meter lead.
Unexpected high-frequency response	Check long-case support and bracket stiffness for mechanical resonance.

Acceptance questions

What installation risk is introduced by the 100 mm case on 330104-00-10-20-12-05?	The longer body increases the importance of thread depth, bracket stiffness and unsupported length; verify all three before final tightening.
How should the armor on 330104-00-10-20-12-05 be treated during routing?	Use it for surface protection only, maintain bend radius and add clamps so no tensile or torsional load reaches the probe or ClickLoc joint.
Why is the option 12 connector boundary important for 330104-00-10-20-12-05?	It combines FluidLoc cable with a miniature ClickLoc connector but no protector, so the cable route may be wet while the joint still requires a protected environment.
Which resistance result is expected when diagnosing 330104-00-10-20-12-05?	The selected 2.0 m armored probe has an 11.4 ±0.5 ohm nominal center-to-outer resistance; investigate a significant deviation before connecting electronics.
Can a shorter M10 x 1 probe replace 330104-00-10-20-12-05?	Not without a mechanical review because the 100 mm case establishes sensing-tip position and bracket engagement for the installed port.
How does the 2.0 m lead of 330104-00-10-20-12-05 affect companion selection?	The extension cable and Proximitor must complete the electrical length recorded for the installed channel; connector fit alone is insufficient.
What must be inspected after tightening 330104-00-10-20-12-05?	Confirm that the long case has not bottomed, the armor has not twisted the body, and the static gap voltage remains at the approved datum.

Which evidence completes commissioning of 330104-00-10-20-12-05?	Retain case-engagement details, route and clamp photographs, resistance, as-left gap or bias and a controlled monitor-response result.

05 Handover package

Complete marking	330104-00-10-20-12-05
Mechanical result	M10 x 1 forward mount with 0 mm unthreaded option and a 100 mm overall case.
Lead or interface result	2.0 m miniature ClickLoc FluidLoc cable with stainless-steel armor and no 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

Mounting	M10 x 1 with 100 mm case
Cable	2.0 m FluidLoc with stainless armor
Connector	Miniature ClickLoc, no protector
Resistance	11.4 ±0.5 ohm
Release focus	Case support, armor route and dynamic proof

Verified related product references

Bently Nevada 330103-00-03-05-01-05	3300 XL 8 mm proximity probe
Bently Nevada 330101-00-30-05-02-00	3300 XL 8 mm proximity probe
Bently Nevada 330704-000-060-90-02-CN	3300 XL 11 mm proximity probe
Bently Nevada 330130-070-02-05	3300 XL 8 mm extension cable

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

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