Bently Nevada 330103-00-03-05-01-05

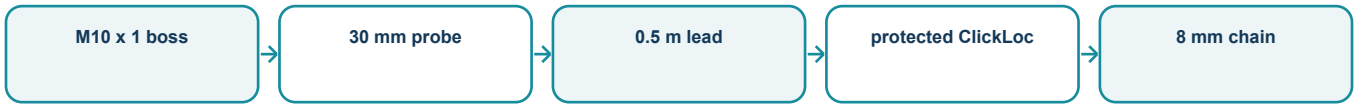
Engineering Installation, Diagnostic and Acceptance Guide

Bently Nevada 330103-00-03-05-01-05 is a compact M10 x 1, unarmored 3300 XL 8 mm probe with a 30 mm case, 0.5 m standard lead and connector protector.

01 Job boundary

Exact product	Bently Nevada 330103-00-03-05-01-05
Documented role	3300 XL 8 mm proximity probe
Configuration question	How do the 30 mm metric case and connector protector share a confined envelope?
System family	3300 XL 8 mm proximity transducer system

Configuration chain



The 30 mm metric case supports compact bearing housings and confined brackets where a protected connector joint can be accommodated without transferring load to the probe lead.

Before work starts

Metric mounting
Confirm the M10 x 1 port, 30 mm case clearance and zero-unthreaded datum before setting the target gap.

Protector envelope
Allow space to seat and inspect the connector protector without bending or twisting the 0.5 m lead.

Approval identity
Keep the exact final 05 marking with the maintenance record; approval on an adjacent 330103 code is not transferable.

02 Pre-installation identity and fit

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

330103	M10 x 1 forward probe without armor
00	0 mm unthreaded reach
03	30 mm overall case
05	0.5 m integral lead
01	standard cable with connector protector
05	multiple approvals

Release gates before removal

Marking	Read the complete 330103-00-03-05-01-05 identity and every approval or revision mark.
Mechanical datum	M10 x 1 forward mount, 0 mm unthreaded reach and 30 mm overall case.
Lead architecture	0.5 m standard lead with miniature ClickLoc connector and connector protector.
Companion chain	The metric order code, connector protector and multiple-approval selection follow Bently Nevada datasheet 141194 Rev. AL. Matched-system performance requires the approved 8 mm 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	Inspect the compact boss Confirm clean M10 x 1 threads and enough depth for the 30 mm case.
Step 2	Reserve protector space Check axial and radial clearance before routing the 0.5 m lead.
Step 3	Install without side load Seat the probe and support the unarmored lead before closing the protector.
Step 4	Document approval identity Photograph the complete final 05 marking in its installed position.
Step 5	Confirm repeatability Repeat the static reading after protector closure and controlled movement.

Installation-specific cautions

Do not confuse 30 mm with 3.0 in
The 03 metric case code represents 30 mm and must not be substituted with the longer inch-coded 330101 geometry.

Reserve protector clearance
The protector increases joint envelope; verify cover, bracket and neighboring cable clearance before installation.

Relieve lead strain
Support the unarmored 0.5 m lead separately so the protector and ClickLoc contacts carry no tensile load.

Inspect the compact port
Remove debris and verify usable M10 x 1 thread depth before seating the zero-unthreaded case.

Preserve approval evidence
Photograph the delivered final 05 marking before the probe is enclosed or routed.

Verify channel response
After setting gap, compare static Proximitor voltage and controlled monitor indication with the accepted record.

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
Protector will not close	Check joint alignment, trapped cable and enclosure clearance.
Bias moves when cover is fitted	Remove lead strain and recheck protector routing.
Metric probe does not seat	Confirm the 03 code is 30 mm, not an inch-coded 3.0 in case.
Approval identity is unclear	Hold release until the full final 05 marking is visible and recorded.

Acceptance questions

How is the 03 case code on 330103-00-03-05-01-05 interpreted?	For this metric 330103 order structure it represents a 30 mm overall case, not 3.0 in; confirm the metric drawing before fit.
What extra clearance must be reserved for 330103-00-03-05-01-05?	Allow room around the miniature ClickLoc connector protector for seating, inspection and removal without bending the short lead.
Why can a visually similar 330101 probe not replace 330103-00-03-05-01-05 directly?	The M10 x 1 metric thread, 30 mm case coding and protector selection differ from the inch-thread order structure and change mechanical fit.
How should the 0.5 m lead of 330103-00-03-05-01-05 be supported?	Route it to the mating extension cable without tension, maintain bend radius and clamp the cable so the protected joint is not a load point.
What approval evidence belongs with 330103-00-03-05-01-05?	Retain a photograph of the complete marking showing the final 05 option and compare it with the project approval requirement.
What does a 7.45 ±0.50 ohm reading establish for 330103-00-03-05-01-05?	It is a useful probe-and-lead diagnostic reference; it does not establish the installed gap or matched-system scale.
Which commissioning observation is most sensitive to a mounting error on 330103-00-03-05-01-05?	An incorrect port depth or case datum shifts the static gap voltage, so compare the as-left Proximitor value with the approved mechanical position.
When should 330103-00-03-05-01-05 be rejected before energization?	Reject it if the metric thread, case code, protected connector, approval marking or companion-chain length differs from the maintenance record.

05 Handover package

Complete marking	330103-00-03-05-01-05
Mechanical result	M10 x 1 forward mount, 0 mm unthreaded reach and 30 mm overall case.
Lead or interface result	0.5 m standard lead with miniature ClickLoc connector and 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

Mounting	M10 x 1 compact forward mount
Case	0 mm unthreaded / 30 mm overall
Joint	Miniature ClickLoc plus protector
Lead	0.5 m standard, unarmored
Acceptance focus	Protector clearance and repeatable gap

Verified related product references

Bently Nevada 330703-020-110-10-01-05	3300 XL 11 mm proximity probe
Bently Nevada 330500-01-04	Velomitor piezo-velocity sensor
Bently Nevada 330701-00-40-10-11-05	3300 XL 11 mm proximity probe
Bently Nevada 330780-91-CN	3300 XL 11 mm Proximitor Sensor

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

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