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

Complete Product Information

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.

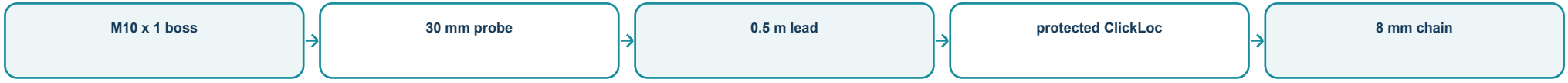
01 Configuration dashboard

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

Order-code interpretation

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

Installed signal path



This compact metric probe combines the shortest selected case in the batch with a protected miniature ClickLoc joint, making mechanical reach and protector clearance the primary fit decisions.

02 Mechanical and electrical evidence

Probe family	3300 XL 8 mm
Mounting thread	M10 x 1
Mounting form	forward mount
Cable armor	No armor
Unthreaded length	0 mm
Overall case length	30 mm
Total probe length	0.5 m
Connector and cable	Miniature ClickLoc with connector protector, standard cable

Approval selection	Multiple approvals
Nominal probe resistance	7.45 ±0.50 ohm
Recommended radial gap	Approximately 1.27 mm at -9 V DC
Matched-system frequency response	0 to 10 kHz, +0/-3 dB
Minimum flat target diameter	15.2 mm
Probe cable impedance	75 ohm triaxial
Probe tip material	PPS
Probe case material	AISI 303 or 304 stainless steel

Engineering interpretation

The 30 mm M10 x 1 case provides a compact installation envelope, while the zero-unthreaded option keeps the sensing position tied directly to the threaded port. Confirm that the installed boss supplies enough engagement without moving the probe tip beyond the approved target region.

Option 01 adds a connector protector around the standard-cable miniature ClickLoc joint. The protector needs its own radial and axial clearance, and the unarmored 0.5 m lead must still be supported so the protector is not used as strain relief.

The complete 3300 XL 8 mm chain provides the documented 2.0 mm range and 7.87 V/mm scale under the specified target and calibration conditions. For this short probe, connector cleanliness, target clearance and repeatable mounting datum are the decisive acceptance checks.

Evidence boundary

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.

03 Application decisions and release controls

Compact metric bearing point
Use in an approved M10 x 1 housing where a 30 mm case reaches the shaft without an added unthreaded standoff.

Protected junction enclosure
Use where the option 01 connector protector can remain accessible and dry inside a small local enclosure.

Short-lead thrust measurement
Apply to an axial target only after confirming that the 0.5 m lead reaches the companion cable without tension.

Metric installed-base renewal
Match the 30 mm case, protected standard connector and multiple-approval suffix when renewing the channel.

Product-specific precautions

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.

Engineering decision matrix

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.

04 Installed-base record and support

Lifecycle context

Exact-order status	A current lifecycle phase is not confirmed for the complete 330103-00-03-05-01-05 suffix combination.
Platform relationship	Service decisions remain tied to an installed 3300 XL 8 mm chain using the same M10 x 1 compact geometry and 0.5 m probe lead.
Protector-dependent fit	Replacement review includes physical clearance for the option 01 connector protector as well as the 30 mm case.
Supply boundary	Apter Power confirms the exact offered marking and quantity in quotation without assigning a manufacturer lifecycle phase.

Verified related product references

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

Available unit details

Offered reference	Bently Nevada 330103-00-03-05-01-05 metric forward-mount probe.
Identity check	Verify 00/03 geometry, 05 lead, option 01 protected standard connector and final 05 approval marking.
Included items	The supply is one compact probe; mating extension cable and all system electronics remain separate unless listed.

Additional exact-model decisions

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.

Diagnostic interpretation

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 evidence

Mechanical evidence	M10 x 1 forward mount, 0 mm unthreaded reach and 30 mm overall case. Record the final installed datum.
Lead evidence	0.5 m standard lead with miniature ClickLoc connector and connector protector. Retain route and termination photographs.
Functional evidence	Confirm the 30 mm metric fit, protector clearance and stable gap voltage before release.

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

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