Bently Nevada 330103-02-04-10-02-05

Complete Product Information

Bently Nevada 330103-02-04-10-02-05 is the M10 x 1 unarmored 3300 XL 8 mm probe used as the passive sensing element in a matched eddy-current measurement chain.

01 Product identity and verified data

Complete model	330103-02-04-10-02-05
Product type	3300 XL 8 mm proximity probe
Manufacturer	Bently Nevada
Technical source	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN
Probe family	3300 XL 8 mm
Mounting thread	M10 x 1
Cable armor	No armor
Unthreaded length	20 mm
Overall case length	40 mm
Total probe length	1.0 m
Connector	Miniature coaxial ClickLoc, standard cable
Approval selection	CSA, ATEX and IECEx approvals

Engineering purpose

Bently Nevada 330103-02-04-10-02-05 is the M10 x 1 unarmored 3300 XL 8 mm probe used as the passive sensing element in a matched eddy-current measurement chain.

Selected order-code snapshot

Selected mechanics	M10 x 1; 20 mm unthreaded reach; 40 mm case.
Lead interface	1.0 m; Miniature coaxial ClickLoc, standard cable.
Matched-system role	Passive eddy-current sensing element for a complete 3300 XL 8 mm chain.

02 Technical capability and engineering overview

Nominal probe resistance	7.59 +/- 0.50 ohm
Matched-system range	2.0 mm under stated reference conditions
Matched-system scale	7.87 V/mm (200 mV/mil)
Proximitor supply	-17.5 to -26 V DC; 12 mA maximum without barriers

Proximitor output resistance	50 ohm
Reference target	AISI 4140 steel
Measurement roles	Static position, dynamic vibration, phase reference and speed

Evidence boundary

Order fields through the connector selection are decoded by 141194 Rev. AN. The approval selection follows the current ordering table.

Engineering overview

The M10 x 1 body, 20 mm unthreaded reach and 40 mm case establish the installed sensing position. Compare them with the port depth, lock position and expected target travel before removal.

The 1.0 m lead terminates in miniature coaxial clickloc, standard cable. Preserve the probe-plus-extension-cable electrical length, keep the coaxial joint clean and dry, and support the lead independently of the connector.

The stated range and scale belong to a matched probe, extension cable and Proximitor on the reference target. Final acceptance restores the approved gap or bias and proves the monitor response against the machine baseline.

Application map

Radial shaft vibration

Use the complete matched transducer chain at a documented bearing location to observe shaft motion relative to the probe mounting.

Axial position

Aim the probe at an approved conductive thrust target and keep the expected travel inside the characterized linear region.

Phase reference

Use only where the installed target feature and monitoring channel are approved for once-per-turn phase reference.

Installed-channel maintenance

Preserve the recorded probe, extension cable, Proximitor, target material, mounting geometry and monitor assignment.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 330103-02-04-10-02-05 and the documented 3300 XL 8 mm proximity transducer system context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.
Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

Installed-system context

The offered part is the M10 x 1 unarmored 3300 XL 8 mm probe; the installed extension cable and Proximitor must preserve the approved chain length and monitor assignment.

04 Lifecycle, offered scope and related references

Lifecycle status

Exact-model status	A separate manufacturing or support phase is not assigned to the complete 330103-02-04-10-02-05 order identity.
Installed-family context	Service planning must preserve the documented 3300 XL 8 mm proximity transducer system relationship for this installed channel.
Replacement boundary	Confirm the complete marking and every installed companion component before approving a replacement.
Supply boundary	Apter Power availability is confirmed independently from the manufacturer lifecycle phase.

Available unit details

Offered reference	Bently Nevada 330103-02-04-10-02-05, configured as a M10 x 1 unarmored 3300 XL 8 mm probe.
Identity check	Confirm 20 mm unthreaded reach, 40 mm case, 1.0 m lead and the complete delivered suffix.
Included items	Probe only; extension cable, Proximitor Sensor, monitor and mounting hardware are separate unless itemized.

Source and applicability record

Verified source	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN
Applicability boundary	Order fields through the connector selection are decoded by 141194 Rev. AN. The approval selection follows the current ordering table.
Product family	3300 XL 8 mm proximity transducer system

Additional related product references

Related product	Bently Nevada 330930-040-03-00
Related product	Bently Nevada 84661-96
Related product	Bently Nevada 330102-00-28-10-02-05
Related product	Bently Nevada 330104-00-16-10-02-00

Engineering contact

Discuss the exact marking and installed application with Apter Power.
sales13@apterpower.com | +86 18030235313