Bently Nevada 330103-00-05-10-02-05

Complete Product Information

Bently Nevada 330103-00-05-10-02-05 is a compact 50 mm M10 x 1 probe with a 1.0 m unarmored standard lead and multiple-approval option.

01 Product identity and verified data

Complete model	330103-00-05-10-02-05
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. AL
Probe family	3300 XL 8 mm
Mounting thread	M10 x 1
Cable armor	No armor
Unthreaded length	0 mm
Overall case length	50 mm
Total probe length	1.0 m
Connector	Miniature ClickLoc, standard cable without protector
Approval selection	Multiple approvals

Engineering purpose

Bently Nevada 330103-00-05-10-02-05 is a compact 50 mm M10 x 1 probe with a 1.0 m unarmored standard lead and multiple-approval option.

Selected order-code snapshot

Selected geometry	M10 x 1; 0 mm unthreaded reach; 50 mm overall case.
Lead construction	1.0 m lead with unarmored cable; Miniature ClickLoc, standard cable without protector.
Diagnostic reference	5.9 +/-0.5 ohm nominal probe resistance; Multiple approvals.

02 Technical capability and engineering overview

Nominal probe resistance	5.9 +/-0.5 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

Exact order fields and probe-level numeric values are from 141194 Rev. AL. Range, scale and frequency response remain properties of the complete matched 3300 XL 8 mm chain.

Engineering overview

The 50 mm case is the central selection field for 330103-00-05-10-02-05. It fits compact metric brackets but provides less separation between the locknut, connector lead exit and sensing datum than longer 330103 bodies.

Its standard lead is unarmored and the ClickLoc has no protector. Installation quality depends on deliberate service clearance, a neutral lead exit and local route protection rather than on mechanical shielding supplied by the probe.

The multiple-approval suffix must be matched to the actual delivered label. After identity and geometry are accepted, the chain is commissioned by restoring the recorded operating point and verifying the monitor without cable strain.

Application map

Compact metric bearing brackets

Use where the 50 mm M10 body reproduces the installed sensing-face datum.

Close-coupled axial fixtures

Check the short case and locknut envelope against thrust-target travel and service access.

Unarmored cabinet-adjacent routes

Provide nearby strain relief and abrasion protection for the 1.0 m standard lead.

Approval-controlled replacements

Compare the complete suffix and delivered approval label before replacing another 330103 case.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 330103-00-05-10-02-05 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

Order-code coverage	141194 Rev. AL defines the M10 x 1, 0 mm, 50 mm, 1.0 m, connector and approval fields used by 330103-00-05-10-02-05.
Installed-base dependency	Continued use depends on retaining the selected case geometry, unarmored cable, companion extension cable and Proximitor total length.
Replacement boundary	A 40 mm or 60 mm case changes the target datum; a protected option 01 connector changes the required joint envelope.
Release evidence	Record the delivered marking, fit, connector condition, companion identities, restored gap or bias and controlled monitor response.

Available unit details

Offered configuration	M10 x 1 probe; 0 mm unthreaded reach; 50 mm case; 1.0 m lead; unarmored cable.
Selected termination	Miniature ClickLoc, standard cable without protector; Multiple approvals.
Included scope	One probe; 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. AL
Applicability boundary	Exact order fields and probe-level numeric values are from 141194 Rev. AL. Range, scale and frequency response remain properties of the complete matched 3300 XL 8 mm chain.
Product family	3300 XL 8 mm proximity transducer system

Additional related product references

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
Related product	Bently Nevada 330500-00-01

Product-specific purchasing decisions

How does the 50 mm case of 330103-00-05-10-02-05 affect service access?	The short body compresses the locknut and lead-exit envelope, so confirm tool clearance and connector access before final seating.

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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