Bently Nevada 330102-00-60-05-02-05

Complete Product Information

Bently Nevada 330102-00-60-05-02-05 is an armored 3/8-24 probe with a 6.0 in case and short 0.5 m standard lead for a matched 3300 XL 8 mm measurement chain.

01 Product identity and verified data

Complete model	330102-00-60-05-02-05
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	3/8-24 UNF-2A
Cable armor	Stainless-steel armor
Unthreaded length	0.0 in
Overall case length	6.0 in
Total probe length	0.5 m
Connector	Miniature ClickLoc, standard cable without protector
Approval selection	Multiple approvals

Engineering purpose

Bently Nevada 330102-00-60-05-02-05 is an armored 3/8-24 probe with a 6.0 in case and short 0.5 m standard lead for a matched 3300 XL 8 mm measurement chain.

Selected order-code snapshot

Selected geometry	3/8-24 UNF-2A; 0.0 in unthreaded reach; 6.0 in overall case.
Lead construction	0.5 m lead with stainless-steel armor; Miniature ClickLoc, standard cable without protector.
Diagnostic reference	7.45 +/-0.50 ohm nominal probe resistance; Multiple approvals.

02 Technical capability and engineering overview

Nominal probe resistance	7.45 +/-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

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 6.0 in case makes 330102-00-60-05-02-05 the longest inch-thread probe in this batch. Its sensing-face position depends on the installed sleeve or bracket, while the long rigid body increases sensitivity to misalignment and unsupported cantilever.

Stainless-steel armor protects the short 0.5 m lead but also raises route stiffness close to the mounting point. The first clamp and bend must prevent armor spring force from turning the probe or loading the ClickLoc joint.

The documented 7.45 +/-0.50 ohm probe resistance is useful for isolated fault separation. Commissioning still requires the matched extension cable and Proximitor, a restored operating point and a controlled monitor-response check.

Application map

Long sleeve-mounted radial probes

Use where the approved 3/8-24 sleeve positions a 6.0 in case at a documented bearing target.

Remote bracket installations

Review bracket stiffness and lateral support because the long case can magnify alignment error.

Short armored lead transitions

Place the first support so the 0.5 m armored lead cannot rotate the probe or stress the connector.

High-access replacement work

Retain removal dimensions and sleeve engagement before exchanging another long-case 330102 configuration.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 330102-00-60-05-02-05 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 3/8-24 UNF-2A armored 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 3/8-24 UNF-2A, 0.0 in, 6.0 in, 0.5 m, connector and approval fields used by 330102-00-60-05-02-05.
Installed-base dependency	Continued use depends on retaining the selected case geometry, stainless-steel armor, companion extension cable and Proximitor total length.
Replacement boundary	A shorter 3/8-24 case cannot reproduce the installed sensing-face position, and an unarmored 330101 changes route stiffness and protection.
Release evidence	Record the delivered marking, fit, connector condition, companion identities, restored gap or bias and controlled monitor response.

Available unit details

Offered configuration	3/8-24 UNF-2A probe; 0.0 in unthreaded reach; 6.0 in case; 0.5 m lead; stainless-steel armor.
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 330500-00-01
Related product	Bently Nevada 330980-70-CN
Related product	Bently Nevada 330930-040-03-00
Related product	Bently Nevada 84661-96

Product-specific purchasing decisions

What is the main alignment risk when installing 330102-00-60-05-02-05?	The 6.0 in case can bind or run off-axis in a long sleeve; verify sleeve straightness, bracket stiffness and free tip travel before final tightening.

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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