Bently Nevada 330102-00-28-05-02-05

Complete Product Information

Bently Nevada 330102-00-28-05-02-05 is a 2.8 in armored 3/8-24 probe with a short 0.5 m standard lead for a matched 3300 XL 8 mm chain.

01 Product identity and verified data

Complete model	330102-00-28-05-02-05
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	2.8 in
Total probe length	0.5 m
Connector	Miniature ClickLoc, standard cable without protector
Approval selection	Multiple approvals

Engineering purpose

Bently Nevada 330102-00-28-05-02-05 is a 2.8 in armored 3/8-24 probe with a short 0.5 m standard lead for a matched 3300 XL 8 mm chain.

Selected order-code snapshot

Selected geometry	3/8-24 UNF-2A; 0.0 in unthreaded reach; 2.8 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 2.8 in case gives 330102-00-28-05-02-05 a moderate inch-thread reach distinct from both the 2.0 in and 3.0 in configurations. The installed locknut or sleeve datum must be measured because visual comparison is not precise enough to place the sensing face.

Its 0.5 m armored lead concentrates the first bend and connector close to the mounting point. Route design must prevent armor stiffness from rotating the 3/8-24 body or reducing access to the unprotected ClickLoc.

The probe's 7.45 +/-0.50 ohm reference supports isolated diagnosis of this armored short-lead construction. Full acceptance still reconciles total electrical length, restores gap or bias and proves the assigned monitor channel.

Application map

Moderate-reach inch-thread ports

Use where a 2.8 in case reproduces the installed shaft-target datum without the span of a 6.0 in body.

Armored short-lead routes

Place the extension-cable joint within the 0.5 m reach while controlling the first armor bend.

Sleeve-mounted position probes

Retain the measured sleeve engagement and target-travel window for the 2.8 in geometry.

330102 case-code replacement

Compare the -28 field with -20, -30 or -60 cases before accepting a mechanical substitute.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 330102-00-28-05-02-05 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, 2.8 in, 0.5 m, connector and approval fields used by 330102-00-28-05-02-05.
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 2.0 in or 3.0 in case changes sensing-face position; removing armor changes bend behavior and mechanical 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; 2.8 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 330102-00-28-10-02-05
Related product	Bently Nevada 330104-00-16-10-02-00
Related product	Bently Nevada 330500-00-01
Related product	Bently Nevada 330980-70-CN

Product-specific purchasing decisions

How should the 2.8 in datum of 330102-00-28-05-02-05 be captured?	Measure sleeve engagement, locknut position and face-to-target reference before removal, then reproduce all three after seating the replacement.

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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