Bently Nevada 330192-00-25-50-00

Engineering installation and verification guide

Bently Nevada 330192-00-25-50-00 is an armored 3300 XL 8 mm extended-temperature proximity probe with a 3/8-24 UNF case, 2.5 in overall case length and 5.0 m integral cable.

01 / Establish the installed identity

Compare the full offered model and any visible revision or approval marks with the removed item, machine drawing and monitor configuration. Capture the original measured baseline before changing the sensing chain.

Probe family	3300 XL 8 mm extended-temperature range
Mounting thread	3/8-24 UNF-2A
Cable armor	Stainless-steel armor
Unthreaded length	0.0 in (00 option)
Overall case length	2.5 in
Integral lead length	5.0 m
Approval option	00; agency approval not required

02 / Engineering interface map

1 / machine target	Start from the actual installed application.
2 / probe	Confirm fit and identity before energizing.
3 / matched extension / lead	Confirm fit and identity before energizing.
4 / Proximitor	Confirm fit and identity before energizing.
5 / monitor	Confirm fit and identity before energizing.

03 / Installation decisions

Mounting reach

Compare the fully threaded 2.5 in case and 3/8-24 machine port with the installed drawing before setting gap.

Armor route

Avoid sharp bends and abrasion at the armor ferrule; support the lead without stressing the case exit.

Matched electrical length

Confirm the 5.0 m probe lead is paired with the corresponding 3300 XL 8 mm Proximitor arrangement.

Target response

Do not transfer the AISI 4140 reference scale to a different alloy without an installed-system check.

Connector condition

Inspect and protect the miniature coaxial joint against contamination and liquid entry.

As-left result

Record the final gap voltage and running signal against the approved channel baseline.

04 / Acceptance sequence

Isolate and inspect	Apply site isolation and inspect the physical part, contacts, seal or route as applicable.

Fit and connect	Use the verified mounting and electrical interface; preserve the installed channel design.
Prove response	Check the relevant gap, bias, pressure or velocity output against the approved site procedure.
Record as left	Save complete markings, test results, configuration and operating trend before release.

05 / Fault isolation by symptom

What changes in the channel if 330192-00-25-50-00 is paired with a Proximitor of the wrong electrical length?	The calibration curve and scale can shift even if the channel still produces a plausible voltage. Match the complete probe lead, any extension and Proximitor length before acceptance.
Why can 330192-00-25-50-00 show a changed gap voltage after the target alloy is replaced?	Eddy-current response depends on target conductivity and magnetic properties. Recheck the complete system against the actual target and record a new accepted gap baseline.
How should an intermittent signal from 330192-00-25-50-00 be isolated at the coaxial joint?	With the channel isolated, inspect mating surfaces, connector retention and strain relief, then compare the probe-only resistance with the applicable manufacturer value before replacing electronics.
What can reduce the high-frequency response of a channel using 330192-00-25-50-00?	Long field wiring, barriers or loading can attenuate the dynamic signal while static gap remains plausible. Check the approved monitor interface and manufacturer response curves.

06 / Engineering review before release

When does the ETR construction of 330192-00-25-50-00 need a separate cable-temperature check?	The ETR tip and cable/connector have distinct temperature limits. Assess actual temperatures at the sensing point, cable route and junction before release.
How can nearby metal affect the response of 330192-00-25-50-00?	Metal within the probe field can produce side-view or rear-view effects. Compare counterbore and adjacent geometry with the machine drawing and verify the final gap in situ.
What routing defect can undermine the armor protection on 330192-00-25-50-00?	Bending or pulling at the armor ferrule can damage the internal coaxial lead. Support the route and inspect the cable exit during an isolated continuity check.
Which acceptance values should be retained after replacing 330192-00-25-50-00?	Keep the complete probe and Proximitor markings, probe resistance, target material, as-left gap voltage and live vibration trend with the machine maintenance record.

Technical basis

Bently Nevada 3300 XL 8 mm Proximity Transducer System, 141194 Rev. AN

Discuss the complete marking and installed application with Apter Power.
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