Bently Nevada 330192-00-25-50-00

Complete product information

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.

Product and offer identity

Complete part number	330192-00-25-50-00
Product type	3300 XL 8 mm Extended Temperature Range Armored Proximity Probe
Condition	New, original product
Shipping	Swift global dispatch
Shipping size (est.)	20cm x 20cm x 2.5cm
Weight	0.25 kg
Country of origin	USA
Tariff reference	8537101190
Ships from	Xiamen, Fujian, China

Technical specifications

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
Probe tip	8 mm nominal diameter
Probe-tip temperature	-52 to +218 deg C, ETR design
Cable and connector temperature	-51 to +260 deg C, ETR design
Matched-system linear range	2.0 mm (80 mils), reference setup

Overview

The 330192 order family identifies an armored, standard-mount ETR probe. The 00 and 25 geometry options specify a fully threaded 2.5 in case, while the selected lead is 5.0 m. Use the complete marking when matching the replacement to the installed mounting and cable route.

The eddy-current probe is one element of a 3300 XL 8 mm measuring chain. The published 2.0 mm linear range and 7.87 V/mm incremental scale belong to a matched system on the manufacturer reference target; the probe alone has no standalone voltage output.

ETR ratings distinguish the sensing tip from its cable and connector. Locate the latter within their own environmental limits, confirm the installed Proximitor length and set the operating gap against the approved machine baseline. The 5 m integral lead is intended for a 5 m Proximitor without added extension length.

Applications and compatibility

Radial shaft vibration

Place the tip radially at the approved bearing location and verify target clearance over the shaft orbit.

Axial position

Orient the probe toward a suitable conductive thrust target; validate the working span against expected axial travel.

Shaft average position

Use the static gap component only after the channel and target material have been calibrated together.

High-temperature sensing point

Keep the tip, armored lead, connector and Proximitor within their separate published temperature limits.

Product precautions

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.

Buyer information

Send the exact complete marking, application, quantity and required delivery destination. Confirm the offered condition and included items in the written quotation; shipment details are established with the order.

Lifecycle and available-unit details

The current manufacturer lifecycle phase for this exact complete ordering identity is not established here. Review the installed machine configuration before a replacement decision.

The offered unit is New, original product. Request available label and connector photographs for comparison with the installed part before approving the supply scope.

Engineering questions

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.
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.

Additional technical criteria

Reference target	AISI 4140 steel is the published calibration target.
Reference excitation	Use the matched system and manufacturer negative-DC supply arrangement.
Reference loading	System scale testing uses the stated 10 kilohm reference load.
System gap interval	The 80 mil linear span lies approximately 10 to 90 mil from the reference target.
Typical radial set point	The system reference gap is approximately 50 mil at -9 Vdc.
Field wiring	Three-conductor shielded triad is recommended between Proximitor and monitor.
Field-wire distance	305 m is the published maximum, subject to frequency-response rolloff.
ETR boundary	Probe tip and cable/connector limits differ; the Proximitor has a separate ambient limit.

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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