



Bently Nevada 129716-XXX-040-15 MOD 166797-0133

Special-Configuration 3300 XL 8 mm Probe

Product scope

- Operates as the non-contacting sensing element in a matched 3300 XL 8 mm chain.
- Supports both static gap and dynamic shaft-vibration measurements.
- Preserves the XXX option and MOD 166797-0133 identity for exact configuration control.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Bently Nevada 129716-XXX-040-15 MOD 166797-0133

Special-Configuration 3300 XL 8 mm Probe

Product overview

Bently Nevada 129716-XXX-040-15 MOD 166797-0133 is a special-configuration probe from the 3300 XL 8 mm proximity transducer family. The XXX code and MOD drawing must be checked against the installed probe before ordering.

129716-XXX-040-15 MOD 166797-0133 retains the published 129716 family identity while preserving a customer-controlled XXX option and MOD drawing reference. It is treated as one probe component of a matched 3300 XL 8 mm system.

The sensing tip uses eddy-current coupling to a conductive target, allowing the complete probe, extension cable and Proximitor chain to measure static shaft position and dynamic vibration without physical contact.

The 040-15 suffix cannot be expanded safely without the exact drawing or tag record. Match total system length, connector, approvals, mechanical case and drawing 166797-0133 before replacing the installed probe.

Technical specifications

Probe family	129716 special configuration
Transducer system	3300 XL 8 mm Proximity Transducer System
Measurement principle	Non-contacting eddy current
Published nominal scale factor	7.87 V/mm / 200 mV/mil
Published linear range	2 mm / 80 mil, approximately 0.25 to 2.3 mm
Reference target material	AISI 4140 steel
System components	Probe, extension cable and Proximitor sensor
Interchangeability	Components interchangeable within a correctly matched system
Configuration field	XXX; controlled option
Suffix	040-15; verify against tag and drawing
MOD drawing reference	166797-0133

129716-XXX-040-15 MOD 166797-0133 function and operating principle

Ordered configuration

The listed probe is a special 129716 execution rather than a fully decoded standard catalog string.

System role

Its eddy-current tip observes a conductive shaft while the Proximitors sensor converts the gap-dependent response.

Selection and installation

Confirm every unresolved suffix and the complete electrical length before connecting the probe to an existing channel.

Functional path

- Operates as the non-contacting sensing element in a matched 3300 XL 8 mm chain.
- Supports both static gap and dynamic shaft-vibration measurements.
- Preserves the XXX option and MOD 166797-0133 identity for exact configuration control.

Application scenarios

- Fluid-film bearing machines use the probe for radial shaft-vibration observation.
- Axial position or thrust channels can use the same measurement principle with suitable mechanical orientation.
- Keyphasor and speed-reference arrangements may use compatible 3300 XL 8 mm probes where the engineered target permits.

129716-XXX-040-15 MOD 166797-0133 engineering checks

Environmental Ratings

- Probe temperature, cable routing and area classification depend on the exact 129716 configuration selected by the controlled suffix.
- The probe tip and case must remain compatible with the process atmosphere and machine-case sealing arrangement.
- Approval markings should be verified from the installed tag rather than inferred from the family datasheet.

Configuration & Programming

- The monitor channel scale and alarm logic are configured for the matched 3300 XL 8 mm system output.
- Mechanical gap is established within the published linear range after the exact probe chain is installed.
- The XXX and 040-15 fields require the tag or MOD drawing before a configuration record can be finalized.

Compatibility & Interoperability

- Use only a compatible 3300 XL 8 mm extension cable and Proximitor sensor with the selected total electrical length.
- Published accuracy assumes the specified probe chain and reference target material.
- A visually similar probe is not interchangeable until case, connector, lead and approval options are matched.

Critical technical note

Do not decode the XXX field in 129716-XXX-040-15 MOD 166797-0133 by analogy; verify the probe tag and drawing before matching the extension cable or Proximitor sensor.

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