

330876-03-10-00-00

3300 XL 50 mm Smooth Side-Exit Proximity Probe

Product identification

Bently Nevada 330876-03-10-00-00 is a smooth 1.99-inch side-exit 3300 XL 50 mm probe with a 1.0 m high-temperature FluidLoc cable and no armor.

Parameter	Verified value
Manufacturer	Bently Nevada
Model	330876-03-10-00-00
Product Family	3300 XL 50 mm Proximity Transducer System
Product Type	Proximity Probe

Technical specifications

Parameter	Verified value
Probe case option	03 = Smooth 1.99 in diameter, side exit
Total probe length	1.0 m (3.3 ft)
Armor option	00 = High-temperature FluidLoc cable without armor
Agency approval	00 = No approvals
Cable exit	Side exit
Mounting holes	Two 1/4-20 holes at rear of probe case
System linear range	27.9 mm (1100 mils)
Nominal scale factor	0.394 V/mm (10 mV/mil)
Reference target	AISI 4140 steel, 102 mm minimum diameter
System power	-17.5 to -26 VDC without barriers; 12 mA maximum
Output resistance	50 ohms
Extension-cable capacitance	69.9 pF/m typical
Recommended field wiring	Three-conductor shielded triad, 0.2 to 1.5 mm ²
Continuous probe temperature	Up to 200 C
Intermittent probe temperature	Up to 250 C
Connector family	High-temperature ClickLoc
Cable construction	High-temperature FluidLoc
Probe case diameter	1.99 in

Product overview

330876-03-10-00-00 is the smooth side-exit probe configuration in the Bently Nevada 3300 XL 50 mm proximity transducer family. Its 1.99-inch case and rear mounting holes support bracket-based installation around large turbine differential-expansion targets.

The 1.0 m high-temperature FluidLoc cable seals the probe path against moisture migration while retaining the flexible, unarmored construction specified by option 00. High-temperature ClickLoc hardware provides the defined connection to the extension cable or matching Proximitor path.

This probe is intended for extended-range rotor or differential-expansion measurements where cable exit direction and mechanical clearance govern placement. The complete 50 mm system must use matching probe, extension cable and Proximitor components calibrated for the selected target material.

Applications

- Measures differential expansion between a turbine rotor and casing over an extended linear span.
- Supports complementary transducer arrangements on opposite sides of an expansion collar.
- Fits sliding-bracket verification layouts where a side-exit cable avoids the axial mounting path.

Installation

- The two rear 1/4-20 mounting holes secure the smooth case to the applicable probe clamp or bracket.
- The cable collar may be removed temporarily to route the lead through restricted clearances.
- Initial and periodic movement checks should sweep the probe through the required measurement range.

Performance

- The matched 50 mm system provides a 27.9 mm linear range beginning approximately 1.3 mm from the target.
- Nominal scale factor is 0.394 V/mm when calibrated to the documented AISI 4140 target.
- System specifications apply with the matching sensor, extension cable, supply and load conditions.

Operating Environment

- The probe supports continuous operation to 200 C and intermittent exposure to 250 C.
- Front and rear seals combine with FluidLoc construction to limit moisture entry into the probe tip.
- Connector protectors should remain clean and installed to preserve signal integrity in turbine environments.

High-risk technical note

330876-03-10-00-00 must be clamped by the correct smooth-probe bracket; do not force the 1.99-inch side-exit body into a threaded mounting port.

Request a quotation
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Exact model
330876-03-10-00-00
3300 XL 50 mm Proximity Transducer
System



Manufacturer source

<https://dam.bakerhughes.com/m/8164bf26bda9534/original/3300-XL-50mm-Proximity-Transducer-System-Datasheet-174014-pdf.pdf>
Source technical meaning is unchanged. This web edition is organized for exact-model identification and quotation support.