

330876-01-50-01-05

3300 XL 50 mm 1/2-20 Armored Proximity Probe

Product identification

Bently Nevada 330876-01-50-01-05 is a 1/2-20 threaded 3300 XL 50 mm probe with a 5.0 m armored high-temperature FluidLoc cable and multiple approvals.

Parameter	Verified value
Manufacturer	Bently Nevada
Model	330876-01-50-01-05
Product Family	3300 XL 50 mm Proximity Transducer System
Product Type	Proximity Probe

Technical specifications

Parameter	Verified value
Probe case option	01 = 1/2-20 thread
Total probe length	5.0 m (16.4 ft)
Armor option	01 = High-temperature FluidLoc cable with armor
Agency approval	05 = Multiple approvals
Probe exit	Straight exit
Locknut	Included with predrilled safety-wire holes
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

330876-01-50-01-05 is a threaded extended-range probe for the Bently Nevada 3300 XL 50 mm transducer system. The 1/2-20 case supports direct threaded mounting and includes a locknut prepared for safety wiring.

Its five-metre high-temperature FluidLoc lead is protected by armor for demanding routes around turbine casings. The probe and cable use high-temperature ClickLoc connection hardware and must be matched to the five-metre 50 mm Proximity configuration.

The assembly is suited to differential-expansion and rotor-expansion measurements where a protected cable path and documented approvals are required. Target geometry, installed gap and the complete system calibration remain part of the measurement design.

Applications

- Monitors differential expansion on large steam turbine generators with direct threaded probe mounting.
- Provides a protected lead for routes exposed to mechanical contact or maintenance activity.
- Supports approved 50 mm transducer installations that require the 05 ordering option.

Compatibility

- The five-metre probe is designed for the five-metre 3300 XL 50 mm Proximity Sensor.
- Probe, extension cable and sensor must all belong to the 3300 XL 50 mm component family.
- The nominal calibration assumes an AISI 4140 steel target of at least 102 mm diameter.

Environmental Ratings

- High-temperature construction supports 200 C continuous probe operation and 250 C intermittent exposure.
- FluidLoc limits process liquid movement through the cable interior.
- The 05 suffix identifies the multiple-approval option; apply only approvals present on the delivered label.

Safety

- Secure the threaded case with the supplied locknut and project-approved safety wiring.
- Support the armored lead so vibration and bend load are not transferred to the probe body.
- Isolate the monitored machine and confirm safe target clearance before any gap adjustment.

High-risk technical note

330876-01-50-01-05 is a five-metre probe and must not be connected to a nine-metre 50 mm Proximity configuration without a documented system-length match.

Request a quotation
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Exact model
330876-01-50-01-05
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.