# Bently Nevada 330876 Series Service Manual

330876-02-10-01-05

## 1. Description

Part Number: 330876-02-10-01-05

## 3. Product Information

Part Number: 330876-02-10-01-05

Model: 3300 XL 50 mm Proximity Probe

Manufacturer: Bently Nevada

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

Model and Suffix Codes

Model: 330876 - 3300 XL 50 mm Proximity Probe

Probe Case Type Option: -0 2  M14x1.5 Thread

Total Length Option: -10 - 1.0 metre (3.3 feet)

Armor Option: -0 1 High Temperature FluidLoc Cable with Armor

Agency Approval Option: -0 5 Multiple Approvals

The 3300 XL 50 mm probe is designed to survive the harshest steam turbine DE environments. It can continually operate and maintain its accuracy in high temperatures up to 200°C (392°F), and can withstand intermittent high temperatures up to 250°C (482°F). The 50 mm probe has both a front and rear seal which, combined with the High Temperature FluidLoc cable (standard on all 50 mm probes), prevent moisture from entering the probe tip. Special high-temperature ClickLoc connectors are also standard on the probe and extension cable. Each probe and cable comes with connector protectors and a disposable connector protector installation tool to ensure that the connectors remain free of contamination. The ClickLoc connector on the probe lead features a removable collar that facilitates routing the cable through tight clearances.

The 3300 XL 50 mm probe is available in straight exit case styles with ½-20 English threads or M14x1.5 metric threads, including a locknut with predrilled safety wire holes. The side exit probe has two ¼-20 mounting holes in the rear of the probe case. For both straight exit and side exit probes the overall case diameter is 1.99 inches.

Probe DC Resistance

Probe Length 1.0 m

Resistance from Center to Coaxial Conductor 6.4 ± 0.5 Ω

Probe Tip

Material

Polyphenylene Sulfide (PPS).

Probe Case

Material

AISI 304 stainless steel (SST).

Probe Cable

Specifications

75 Ω triaxial, perfluoroalkoxyethylene (PFA) insulated FluidLoc probe cable in the following total probe lengths: 1, 5 or 9 meters.

Probe Case Thread M14x1.5

| | |
|---|---|
| Maximum Length of Thread Engagement | 21 mm |
| Operating and Storage Temperature | -35°C to +200°C (-31°F to +392°F) |
| Short-term Operating and Storage Temperature | +250°C (+482°F) for less than 24 hours. |