# Bently Nevada 330180&330780&330980 Series Service Manual

330180-90-05

## 1. Description

Manufacturer : Bently Nevada

## 3. Product Information

Manufacturer : Bently Nevada

Product No. : 330180-90-05

Product Type : 3300 XL Proximitor Sensor

Made in U.S.A

Total Length and Mounting Option : 90 9.0 meters (29.5 feet) system length, panel mount

Agency Approval Option : 05 CSA, ATEX, IECEx Approvals

The 3300 XL Proximitor Sensor incorporates numerous improvements over previous designs. Its physical packaging allows you to use it in high-density DIN-rail installations. You can also mount the sensor in a traditional panel mount configuration, where it shares an identical 4-hole mounting “footprint” with older Proximitor Sensor designs. The mounting base for either option provides electrical isolation and eliminates the need for separate isolator plates. The 3300 XL Proximitor Sensor is highly immune to radio frequency interference, allowing you to install it in fiberglass housings without adverse effects from nearby radio frequency signals. The 3300 XL Proximitor Sensor’s improved RFI/EMI immunity satisfies European CE mark approvals without requiring special shielded conduit or metallic housings, resulting in lower installation costs and complexity.

The 3300 XL’s SpringLoc terminal strips require no special installation tools and facilitate faster, more robust field wiring connections by eliminating screw-type clamping mechanisms that can loosen.

Proximitor Sensor Input

Accepts one non-contacting 3300-series 5 mm, 3300 XL 8 mm Proximity Probe and Extension Cable.

Power

Requires -17.5 Vdc to -26 Vdc when installed with nonincendive circuit connected per installation drawing 140979 at 12 mA maximum consumption, -23 Vdc to -26 Vdc with barriers. Operation at a more positive voltage than -23.5 Vdc can result in reduced linear range.

Supply Sensitivity

Less than 2 mV change in output voltage per volt change in input voltage.

Output Resistance 50 Ω

Proximitor Sensor Material

A308 aluminum

Connector

Material

Gold-plated brass or goldplated beryllium copper.

Proximitor

Sensor 246 g (8.67 oz)

Proximitor Sensor Temperature Range

Operating

Temperature

-52°C to +100°C (-62°F to

+212°F)

Storage

Temperature

-52°C to +105°C (-62°F to

+221°F)