

Bently Nevada 330180&330780&330980 Series Service Manual

330180-90-CN

1. Description

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3. Product Information

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The 3300 XL Proximity 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 Proximity Sensor designs. The mounting base for either option provides electrical isolation and eliminates the need for separate isolator plates. The 3300 XL Proximity 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 Proximity 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.

Proximity

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

Proximity

Sensor

Material

A308 aluminum

Connector

Material

Gold-plated brass or goldplated beryllium copper.

Proximity

Sensor 246 g (8.67 oz)

Proximity 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)

