

# Bently Nevada 330180&330780&330980 Series Service Manual

330980-50-00

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## 1. Description

Part Number: 330980-50-00

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## 3. Product Information



Part Number: 330980-50-00

Model: NSv Proximity Sensor

Manufacturer: Bently Nevada

Model and Suffix Codes

Model: 330980 - NSv Proximity Sensor

Total Length and Mounting Option: 50 - 5.0 metre (16.4 feet) system length, panel mount

Agency Approval Option: 00 - Not required

The 3300 XL NSv Proximity Sensor has similar

features to those found in the 3300 XL 8 mm

Proximity Sensor. Its thin design allows the user

to mount it in either a high-density DIN-rail

installation or a more traditional panel mount

configuration. Improved RFI/EMI immunity

allows the 3300 XL NSv Proximity Sensor to

achieve European CE mark approvals without

any special mounting considerations. This RFI

immunity also prevents nearby high frequency

radio signals from adversely affecting the

transducer system. SpringLoc terminal strips on

the Proximity Sensor require no special

installation tools and facilitate faster, highly

robust field wiring connections.

Proximity Sensor Material A380 aluminum

Proximity

Sensor 255 g (9 oz)

Proximity

Sensor Input

Accepts one noncontacting 3300 RAM or

3300 NSv Proximity Probe

and Extension Cable.

Power

Requires -17.5 Vdc to -26

Vdc without barriers 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  $\Omega$

Unless otherwise noted, the following

specifications are for a 3300 XL NSv Proximity

Sensor, extension cable and probe between

0°C and +45°C (+32°F to +113°F) at a maximum

altitude of 2000 m, with a -24 Vdc power

supply, a 10 k $\Omega$  load, a Bently Nevada supplied

AISI 4140 steel target that is 31 mm (1.2 in)

diameter or larger, and a probe gap of 1.0 mm

(40 mils). The system accuracy and

interchangeability specifications do not apply

when using a transducer system calibrated to

any target other than a Bently Nevada AISI 4140



steel target.

Operating

Temperature

-52°C to +100°C (-62°F to  
+212°F)

Storage

Temperature

-52°C to +105°C (-62°F to  
+221°F)

Relative

Humidity

100% condensing, nonsubmersible when

connectors are

protected.Tested to IEC 68-2-

3 damp heat.

