Bently Nevada 330180&330780&330980 Series Service Manual

330980-51-05

1. Description

Part Number: 330980-51-00

3. Product Information

Part Number: 330980-51-00

Model: NSv Proximitor Sensor

Manufacturer: Bently Nevada

Model and Suffix Codes

Model: 330980 - NSv Proximitor Sensor

Total Length and Mounting Option: 51= 5.0 meters (16.4 feet) system length, DIN mount

Agency Approval Option: 00 - Not required

The 3300 XL NSv Proximitor Sensor has similar features to those found in the 3300 XL 8 mm Proximitor 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 Proximitor 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 Proximitor Sensor require no special installation tools and facilitate faster, highly robust field wiring connections.

Proximitor Sensor Material A380 aluminum

Proximitor

Sensor 255 g (9 oz)

Proximitor

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 Ω

Unless otherwise noted, the following specifications are for a 3300 XL NSv Proximitor 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 kΩ 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.