

Bently Nevada 330850&330854 Series Service Manual

330850-51-05

1. Description

Part Number: 330850-51-05

3. Product Information

Part Number: 330850-51-05

Model: Proximity Sensor

Manufacturer: Bently Nevada

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

330850-AA-BB

A: Total Length and Mounting Option

5 1 5.0 metres (16.4 feet) system length,

DIN mount

B: Agency Approval Option

0 5 Multiple Approvals

The 3300 XL 25 mm Proximity Sensor¹ has the same advanced features as our previous 3300 XL Proximity Sensors. Its thin design allows it to be mounted in either a high-density DIN-rail installation or a more traditional panel mount configuration. Improved RFI/EMI immunity allows the 3300 XL Proximity Sensor to achieve European CE mark approvals without any special mounting considerations. This RFI immunity also prevents the transducer system from being adversely affected by nearby high frequency radio signals. SpringLoc terminal strips on the Proximity Sensor require no special installation tools and facilitate faster, highly robust field wiring connections.

Proximity Sensors are supplied by default from the factory calibrated to AISI 4140 steel.

Calibration to other target materials is available upon request.

Proximity

Sensor Input

Accepts one noncontacting 3300 XL

25 mm 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 W

Proximity

Sensor

Material

A380 aluminum

Sliding

Bracket

Material

Anodized aluminum and stainless

steel

Proximity

Sensor

255 g (9 oz)

Proximity Sensor Temperature Range

Operating

Temperature

-51°C to +100°C (-60°F to +212°F)

Storage

Temperature

-51°C to +105°C (-60°F to +221°F)

Compliance and Certifications

FCC

This device complies with part 15 of the

FCC Rules. Operation is subject to the

following two conditions:

I This device may not cause harmful
interference.

I This device must accept any
interference received, including
interference that may cause
undesired operation.

EMC

EN 61000-6-2

EN 61000-6-4

EMC Directive 2014/30/EU

RoHS

RoHS Directive 2011/65/EU

Maritime

ABS 2009 Steel Vessels Rules

1-1-4/7.7,4-8-3/1.11.1,4-9-7/13

ia:

When installed

with

intrinsically

safe zener

barriers per

drawing

141092 or

when installed

with galvanic

isolators.

Class I, Zone 0: AEx/Ex ia IIC T4/T5

Ga;

Class I, Groups A, B, C, and D,

Class II, Groups E, F and G,

Class III;

T5 @ Ta = -55 °C to + 40 °C.

T4 @ Ta = -55 °C to + 80 °C.

nA, ec:

When installed

without

barriers per

drawing

140979.

Class I, Zone 2: AEx/Ex nA IIC T4/T5

Gc;

Class I, Division 2, Groups A, B, C,

and D;

Class I, Zone 2: AEx/Ex ec IIC T4/T5

Gc;

Class I, Division 2, Groups A, B, C,
and D;

T5 @ $T_a = -55\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$

T4 @ $T_a = -55\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$

