Bently Nevada 330850&330854 Series Service Manual

330850-51-00

1. Description

Part Number: 330850-51-00

3. Product Information

Part Number: 330850-51-00

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 0 No Approvals

The 3300 XL 25 mm Proximitor Sensor1 has the same advanced features as our previous 3300 XL Proximitor 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 Proximitor 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 Proximitor Sensor require no special installation tools and facilitate faster, highly robust field wiring connections.

Proximitor Sensors are supplied by default from the factory calibrated to AISI 4140 steel. Calibration to other target materials is available upon request.

Proximitor
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

Proximitor
Sensor
Material

A380 aluminum

Sliding
Bracket
Material

Anodized aluminum and stainless steel

Proximitor

Sensor

255 g (9 oz)

Proximitor 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:

l This device may not cause harmful

interference.

l 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 @ Ta= -55 ˚C to + 40 ˚C

T4 @ Ta= -55 ˚C to + 80˚C