Bently Nevada 330102&330103&104 Series Service Manual

330103-00-08-15-02-CN

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. : 330103-00-08-15-02-CN

Product type : 3300 XL 8 mm Proximity Probes

330103 3300 XL 8 mm Probe, M10 x 1 thread, without armor

Unthreaded Length Option : 00 = 00mm

Overall Case Length Option : 08= 80mm

Total Length Option : 15 1.5 meter (4.9 feet)

Connector and Cable-Type Option :

02 Miniature coaxial ClickLoc

connector, standard cable

Agency Approval Option :CN=Country Specific Approval

Probe Tip Material: Polyphenylene sulfide (PPS)

Probe Case Material: AISI 303 or 304 stainless steel (SST).

Probe Pressure : 3300 XL 8 mm probes are designed to seal differential pressure between the probe tip and case. The probe sealing material consists of a Viton® O-ring. Probes are not pressure tested prior to shipment. Contact our custom design department if you require a test of the pressure seal for your application.

Nominal Probe DC Resistance

Resistance (RPROBE) from Center Conductor

to Outer Conductor

Probe

Length (m)

RPROBE(Ω)

1.5 7.73 ± 0.50

Field Wiring

0.2 to 1.5 mm2 (16 to 24

AWG). Recommend using

3 conductor shielded triad

cable and tinned field

wiring. Maximum length of

305 meters (1,000 feet)

between the 3300 XL

Proximitor Sensor and the

monitor. See the frequency

response graphs, Figures

10 and 12, for signal rolloff

at high frequencies when

using longer field wiring

lengths.

Linear Range

2 mm (80 mils). Linear

range begins at

approximately 0.25 mm (10

mils) from target and is

from 0.25 to 2.3 mm (10 to

90 mils) (approximately –1

to –17 Vdc).

Recommended

Gap Setting for

Radial Vibration

-9 Vdc [approximately 1.27

mm (50 mils)]

Mechanical

Probe Tip

Material Polyphenylene sulfide (PPS).

Probe Case

Material

AISI 303 or 304 stainless steel

(SST).

Probe

Case

Thread

Maximum Length of Thread

Engagement

M10x1 15 mm

Probe 323 g/m (11.4 oz)

Probe Temperature Range

Operating and Storage Temperature

Standard

Probe

-52°C to +177°C (-62°F to

+350°F)

Extended

Temperature

Range Probe

-52°C to +218°C (-62°F to

+425°F) for the probe tip; -

51°C to +260°C (-60°F to

+500°F) for the probe cable

and connector.

Exposing the probe to temperatures

below –34˚C (-30˚F) may cause

premature failure of the pressure

seal.

Probe Relative Humidity

Less than a 3% change in Average Scale

Factor (ASF) when tested in 93% humidity in

accordance with IEC standard 68 2 3 for up to

56 days.

3300 XL Probe

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 T5...T1 Ga;

Class 1, Groups A, B. C, and D,

Class II, Groups E, F, and G,

Class III;

nA, ec

When installed

with nonincendive

circuit

connected per

drawing

140979.

Class I, Zone 2: AEx/Ex nA IIC T5...T1 Gc;

Class 1, Division 2, Groups A, B, C, D;

Class 1, Zone 2: AEx/Ex ec IIC T5...T1 Gc;

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

D;