

Bently Nevada 330901&330902&330908&330909 Series Service Manual

330909-00-99-10-02-00

1. Description

Product No :330909-00-99-10-02-00

3. Product Information

Product No :330909-00-99-10-02-00

Product Type : 3300 NSv Proximity Probes

Made in U.S.A

330909 3300 NSv Probe, 3/8-24 UNF thread,

with armor

Unthreaded Length Option : 00 = 0.0 in

Overall Case Length Option :99=9.9 in

Total Length Option : 10= 1.0 meter (39 in)

Connector and Cable-Type Option :02 =Miniature coaxial ClickLoc connector,

standard cable

Agency Approval Option :00= Not required

Probe Case Material : AISI304 stainless steel (SST).

Probe Tip Material : Polyphenylene sulfide (PPS).

Probe Cable Specifications: 75 Ω coaxial, fluoroethylene propylene (FEP) insulated probe cable in the following total probe lengths: 0.5, 1, 5, or 7 metres.

Probe dc Resistance

Probe Length

(m) 5.0

Resistance from the Center

Conductor to the Outer

Conductor (RPROBE)

(ohms)

5.3 ± 0.7

Connector-to-connector Torque

Probe Case

Torque

Maximum

Rated Recommended

3/8-24 or

M10X1 probe

cases

33.9 N•m

(300 in•lb)

11.3 N•m

(100 in•lb)

3/8-24 or

M10X1 probe

cases – first

three

threads

22.6 N•m

(200 in•lb)

7.5 N•m

(66 in•lb)

Thread Engagement Limits

Probe Case Thread 3/8-24

Maximum Length of Thread

Engagement

0.563 in

Probe Temperature Range

Operating

Temperature

-52°C to +177°C (-62°F to

+351°F)

Storage

Temperature

-52°C to +177°C (-62°F to

+351°F)

Exposing the probe

to temperatures

below -34°C (-30°F)

for a sustained

period of time may

cause premature

failure of the

pressure seal.

Probe

Pressure

3300 NSv 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.

Probe Approximately 14 to 150 g

(0.5 to 5.3 oz)

Temperature Schedule

Ambient Temperature

(Probe Only)

For EPL Ga and Gc

Temperature Classification T1 Ambient Temperature -55°C to +232°C

Temperature Classification T2 Ambient Temperature -55°C to +177°C

Temperature Classification T3 Ambient Temperature -55°C to +120°C

Temperature Classification T4 Ambient Temperature -55°C to +80°C

Temperature Classification T5 Ambient Temperature -55°C to +40°C

For EPL Dc

Temperature Classification T280°C @ Ta Ambient Temperature -55°C to +232°C

Temperature Classification T225°C @ Ta Ambient Temperature -55°C to +177°C

Temperature Classification T170°C @ Ta Ambient Temperature -55°C to +120°C

Temperature Classification T130°C @ Ta Ambient Temperature -55°C to +80°C

Temperature Classification T105°C @ Ta Ambient Temperature -55°C to +100°C

Temperature Classification T90°C @ Ta Ambient Temperature -55°C to +40°C

Effects of 60 Hz Magnetic Fields Up to 300

Gauss (5 meter system)

Output voltage in mil pp/gauss

Gap 0.25 mm (10 mils) Proximitior Sensor 0.006 Probe 0.001 Ext. Cable 0.001

Gap 1.0 mm (40 mils) Proximitior Sensor 0.007 Probe 0.002 Ext. Cable 0.001

Gap 1.75 mm (70 mils) Proximitior Sensor 0.008 Probe 0.002 Ext. Cable 0.003

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

European Community Directive:

EMC Directive 2014/30/EU

Standards

EN 61000-6-2; Immunity for

Industrial Environments

EN 61000-6-4; Emissions for

Industrial Environments

RoHS
European Community Directive:
RoHS Directive 2011/65/EU

