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 -55C 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) Proximitor Sensor 0.006 Probe 0.001 Ext. Cable 0.001
Gap 1.0 mm (40 mils) Proximitor Sensor 0.007 Probe 0.002 Ext. Cable 0.001
Gap 1.75 mm (70 mils) Proximitor 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:
l This device may not cause harmful
interference.
l 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