Bently Nevada 330906&330907 Series Service Manual

330907-05-30-50-12-05

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada
Product No. : 330907-05-30-50-12-05
Product type : 3300 NSv Reverse Mount Probe
Made in U.S.A
Ordering information:
330907-05-30: M10X1 threads
Total Length Option : 50 5.0 meters (16.4 feet)
Connector Option :12 Miniature coaxial ClickLoc
connector, FluidLoc cable
Agency Approval Option : 05
Multiple Approvals
The NSv probe has increased chemical
resistance compared to the 3300 RAM probe,
which allows its use in many process
compressor applications. The side-view
characteristics of the 3300 NSv probe are also
superior to those of the 3000-series 190 probe
when gapping the 3300 NSv probe at the same
distance from the probe target.
The 3300 NSv probe comes in varying probe
case configurations, including armored and
unarmored 1/4-28, 3⁄8-24, M8X1 and M10X1
probe threads. The reverse mount 3300 NSv
probe comes standard with either 3⁄8-24 or
M10X1 threads. All components of the
transducer system have gold-plated brass
ClickLoc connectors. ClickLoc connectors lock
into place and prevent the connection from
loosening. The patented TipLoc molding
method provides a robust bond between the
probe tip and the probe body.
Probe dc Resistance
Probe Length (m) 5.0
Resistance from the Center
Conductor to the Outer
Conductor (RPROBE)
(ohms) 5.3 ± 0.7
Field Wiring
0.2 to 1.5 mm2 (16 to 24
AWG)[0.25 to 0.75 mm2 (18
to 23 AWG) with ferrules].
Recommend using threeconductor shielded triad
cable. Maximum length of
305 meters (1,000 feet)
between the 3300 XL NSv
Proximitor Sensor and the
monitor. See the frequency
response graphs Figure 16
and Figure 17 for signal
rolloff at high frequencies
when using longer field
wiring lengths.
Linear Range
1.5 mm (60 mils). Linear
range begins at
approximately 0.25 mm (10
mils) from target and is
from 0.25 to 1.75 mm (10 to
70 mils) (approximately -1

to -13 Vdc).

Recommended

Gap Setting 1.0 mm (40 mils)

Mechanical

Probe Tip

Material Polyphenylene sulfide (PPS).

Probe Case

Material AISI 304 stainless steel (SST)

Probe Case

Torque

Maximum

Rated Recommended

Reverse

mount

probes

22.6 N•m

(200 in•lb)

7.5 N•m

(66 in•lb)

System Weight (typical)

Probe Approximately 14 to 150 g

(0.5 to 5.3 oz)

Probe

Case

Thread

Maximum Length of Thread

Engagement

M10x1 15 mm

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.

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