

Bently Nevada 330906&330907 Series Service Manual

330907-05-30-50-12-00

1. Description

"Manufacturer : Bently Nevada

3. Product Information

"Manufacturer : Bently Nevada

Product No. : 330907-05-30-50-12-00

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 : 00 Not required

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

Proximitior 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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