

Bently Nevada 330906&330907 Series Service Manual

330907-05-30-10-02-05

1. Description

"Manufacturer : Bently Nevada

3. Product Information

"Manufacturer : Bently Nevada

Product No. : 330907-05-30-10-02-05

Product type : 3300 NSv Reverse Mount Probe

Made in U.S.A

Ordering information:

330907-05-30: M10X1 threads

Total Length Option : 10 1.0 meter (39 in)

Connector Option : 02 Miniature coaxial ClickLoc
connector, standard 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)

Resistance from the Center

Conductor to the Outer

Conductor (RPROBE)

(ohms)

1.0 4.2 ± 0.5

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

Proximito 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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