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 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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