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 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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