Bently Nevada 330102&330103&104 Series Service Manual

330104-03-12-05-02-05

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. :330104-03-12-05-02-05

Product type : 3300 XL 8 mm Proximity Probes

Made in U.S.A

330104 3300 XL 8 mm Probe, M10 x 1 thread, with armor

Unthreaded Length Option : 03 = 30 mm

Overall Case Length Option : 12 =120mm

Total Length Option : 05 0.5 meter (1.6 feet)

Connector and Cable-Type Option : 02 = Miniature coaxial ClickLocTM connector, standard cable

Agency Approval Option :05 CSA, ATEX, IECEx Approvals

Probe Tip Material : Polyphenylene sulfide (PPS).

Probe Case Material : AISI 303 or 304 stainless steel (SST).

Probe Pressure: 3300 XL 8 mm probes are designed to seal differential pressure between the probe tip and case. The probe sealing material consists of a Viton® O-ring.

Unless otherwise noted, the following
specifications are for a 3300 XL 8 mm
Proximitor Sensor, extension cable and 8 mm
probe between +18˚C and +27˚C (+64˚F to
+80˚F) at a maximum altitude of 2000 meters,
with a -24 Vdc power supply, a 10 kΩ load, an
AISI 4140 steel target, and a probe gapped at
1.27 mm (50 mils). Performance characteristics
apply to systems that consist solely of 3300 XL 8
mm components. The system accuracy and
interchangeability specifications do not apply
to transducer systems that are calibrated to
any target other than our AISI 4140 steel target.

Electrical

Proximitor

Sensor Input

Accepts one non-contacting
3300-series 5 mm, 3300 XL 8
mm Proximity Probe and
Extension Cable.

Power

Requires -17.5 Vdc to -26 Vdc
when installed with nonincendive circuit connected
per installation drawing 140979
at 12 mA maximum
consumption, -23 Vdc to -26
Vdc with barriers. Operation at
a more positive voltage than
-23.5 Vdc can result in reduced
linear range.

Supply

Sensitivity

Less than 2 mV change in
output voltage per volt change
in input voltage.

Output

Resistance 50 Ω

Nominal Probe DC Resistance

Resistance (RPROBE) from Center Conductor
to Outer Conductor

Probe
Length (m)
RPROBE(Ω)
0.5 7.45 ± 0.50

Mechanical

Probe Tip

Material Polyphenylene sulfide (PPS).

Probe Case

Material

AISI 303 or 304 stainless steel

(SST).