# Bently Nevada 330703&330704&330705&330709&330 Series Service Manual

330709-000-040-50-01-00

## 1. Description

Manufacturer : Bently Nevada

## 3. Product Information

Manufacturer : Bently Nevada

Product No. : 330709-000-040-50-01-00

Product type : 3300 XL 11 mm Proximity Probes

Made in U.S.A

330709 = 3300 XL 11 mm Probe, M16 x 1.5 thread, without armor

Unthreaded Length Option : 000 = 0 mm

Overall Case Length Option :040 =40mm

Total Length Option : 50= 5.0 meters (16.4 feet)

Five meter probes are designed for use with the five meter Proximitor Sensor only.

Connector and Cable-Type Option : 01= Miniature coaxial ClickLoc connector with connector

protector, standard cable

Agency Approval Option : 00 =Not required

Probe dc Resistance

Probe

Length (m) 5.0

Resistance from the Center

Conductor to the Outer

Conductor (RPROBE) (ohms)

7.2 ± 0.8

Cross-talk Limitation:

Target Size - Flat Surface

Diameter

Recommended

Minimum 30.5 mm (1.2 in)

Shaft Diameter

Recommended

Minimum 152 mm (6.0 in)

Probe Tip

Material Polyphenylene sulfide (PPS).

Probe Case

Material AISI 304 stainless steel (SST).

Probe Cable

Specification

75 Ω triaxial, fluoroethylene

propylene (FEP) insulated

probe cable in the following

total probe lengths: 1, 5 or 9

meters.

Probe Case Torque

M16x1.5 probe

cases

21.1 N•m

(187 in•lb)

Connector-to-connector torque

Recommended

torque Finger tight

Maximum

torque 0.565 N•m (5 in•lb)

Minimum Bend

Radius (with or

without SST

armor)

25.4 mm (1.0 in)

Probe Case Thread M16x1.5

Maximum Length of Thread Engagement 24 mm

Probe Temperature Range

Operating and

Storage

Temperature

-52°C to +177°C (-62°F to
+351°F)
Exposing the probe to temperatures
below -34°C (30°F) may cause
premature failure of the pressure
seal.
Probe Case Thread M16x1.5
Maximum Length of Thread
Engagement 24 mm
Probe Case Torque
M14x1.5 and
M16x1.5 probe
cases
Maximum Rated 63.3 N•m (560 in•lb)
Recommended 21.1 N•m (187 in•lb)
Temperature Schedule
(Probe Only)
For EPL Ga and Gc
Temperature Classification T1; Ambient Temperature -55°C to +232°C
Temperature Classification T2 ;Ambient Temperature -55°C to +177°C
Temperature Classification T3; Ambient Temperature -55°C to +120°C
Temperature Classification T4; Ambient Temperature -55°C to +80°C
Temperature Classification T5; Ambient Temperature -55°C to +40°C
For EPL Dc
Temperature Classification T280°C @ Ta ;Ambient Temperature -55°C to +232°C
Temperature Classification T225°C @ Ta ;Ambient Temperature -55°C to +177°C
Temperature Classification T170°C @ Ta; Ambient Temperature -55C to +120°C
Temperature Classification T130°C @ Ta; Ambient Temperature -55°C to +80°C
Temperature Classification T105°C @ Ta; Ambient Temperature -55°C to +100°C
Temperature Classification T90°C @ Ta; Ambient Temperature -55°C to +40°C