

# Bently Nevada 330105&330106 Series Service Manual

330106-05-30-30-12-CN

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## 1. Description

Manufacturer : Bently Nevada

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## 3. Product Information



Manufacturer : Bently Nevada

Product No.330106-05-30-30-12-CN

Product Type : 3300 XL 8 mm Reverse Mount Probes

Made in U.S.A

330106-05-30-CC-DD-EE M10 x 1 threads

Total length option : 30= 3.0 meters

Connector option :

12= Miniature ClickLoc coaxial connector , FluidLoc cable

The FluidLoc cable option -12 is not

necessary on the vast majority of

330105 and 330106 installations due

to the presence of the probe sleeve.

Consider carefully the application

before ordering the FluidLoc cable

option for these probes.

Agency approval option CN=Country Specific

Probe tip material : Polyphenylene sulfide (PPS).

Probe case material : AISI 303 or 304 stainless steel (SST).

Nominal Probe DC Resistance

Resistance (RPROBE) from Center Conductor

to Outer Conductor

Probe Length (m) 3.0

RPROBE( $\Omega$ )  $8.17 \pm 0.50$

Mechanical

Probe Tip

Material Polyphenylene sulfide (PPS).

Probe Case

Material

AISI 303 or 304 stainless steel

(SST).

Probe Cable Specifications

Standard

cable

75 $\Omega$  triaxial, fluoroethylene

propylene (FEP) insulated

probe cable in the following

total probe lengths: 0.5, 1, 1.5, 2,

3, 5, or 9 meters.

Extended

Temperature

Range cable

75 $\Omega$  triaxial, perfluoroalkoxy

(PFA) insulated probe cable in

the following total probe

lengths: 0.5, 1, 1.5, 2, 5, or 9

meters.

Aarmor

(optional on

both)

Flexible AISI 302 or 304 SST

with FEP outer jacket.

Tensile

Strength

(Maximum

Rated)

330 N (75 lbf) probe case to

probe lead.

270 N (60 lbf) at probe lead to

extension cable connectors.



#### Connector

#### Material

Gold-plated brass or goldplated beryllium copper.

Probe Case Thread M10x1

Maximum Length of Thread Engagement 15 mm

Probe 323 g/m (11.4 oz)

Probe Temperature Range

Operating and Storage Temperature

Standard

Probe

-52°C to +177°C (-62°F to  
+350°F)

Extended

Temperature

Range Probe

-52°C to +218°C (-62°F to  
+425°F) for the probe tip; -  
51°C to +260°C (-60°F to  
+500°F) for the probe cable  
and connector.

Exposing the probe to temperatures  
below -34°C (-30°F) may cause  
premature failure of the pressure  
seal.

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. Probes are not pressure  
tested prior to shipment. Contact our custom  
design department if you require a test of the  
pressure seal for your application.

Probe Relative Humidity

Less than a 3% change in Average Scale  
Factor (ASF) when tested in 93% humidity in  
accordance with IEC standard 68 2 3 for up to  
56 days.

