

# Bently Nevada 330105&330106 Series Service Manual

330105-02-12-50-12-00

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## 1. Description

Manufacturer : Bently Nevada

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## 3. Product Information



Manufacturer : Bently Nevada

Product No. : 330105-02-12-50-12-00

Product type : Reverse Mount Probes

Made in U.S.A

Model: 330105-02-12 - 3300 XL 8 mm Reverse Mount Probes

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

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: 00 Not required

Dimension : 20.4 cm x 22.2 cm x 3.7 cm

Nominal Probe DC Resistance

Resistance (RPROBE) from Center Conductor  
to Outer Conductor

Probe

Length (m)

RPROBE( $\Omega$ )

5.0 8.73  $\pm$  0.50

Probe

Case

Thread

Maximum Length of Thread

Engagement

3/8-24 0.563 in

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.

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.

Hazardous Area Approvals

ia

When installed

with

intrinsically

safe zener

barriers per

drawing 141092

or when

installed with

galvanic

isolators.

Class I, Zone 0: AEx/Ex ia IIC T5...T1 Ga;

Class 1, Groups A, B, C, and D,

Class II, Groups E, F, and G,

Class III;

nA, ec

When installed

with nonincendive

circuit

connected per

drawing

140979.

Class I, Zone 2: AEx/Ex nA IIC T5...T1 Gc;

Class 1, Division 2, Groups A, B, C, D;

Class 1, Zone 2: AEx/Ex ec IIC T5...T1 Gc;

Class I, Division 2, Groups A, B, C, and

D;

Temperature Schedule

Temperature

Classification

Ambient Temperature

(Probe Only)

For EPL Ga and Gc

T1 -55°C to +232°C

T2 -55°C to +177°C

T3 -55°C to +120°C

T4 -55°C to +80°C

T5 -55°C to +40°C

For EPL Dc

T280°C @ Ta -55°C to +232°C

T225°C @ Ta -55°C to +177°C

T170°C @ Ta -55°C to +120°C

T130°C @ Ta -55°C to +80°C

T105°C @ Ta -55°C to +100°C

T90°C @ Ta -55°C to +40°C

