

Bently Nevada 330105&330106 Series Service Manual

330105-02-12-30-12-05

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada
 Product No. : 330105-02-12-30-12-05
 Product type : Reverse Mount Probes
 Made in U.S.A
 Model: 330105-02-12 - 3300 XL 8 mm Reverse Mount Probes
 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: 05 CSA, ATEX, IECEx Approvals
 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(Ω)
 3.0 8.17 $\pm$ 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

