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 ± 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 -55C 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