

Bently Nevada 330105&330106 Series Service Manual

330106-05-30-50-12-00

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. :330106-05-30-50-12-00

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 : 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

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) 5.0

RPROBE(Ω) 8.73 ± 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 Ω 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 Ω triaxial, perfluoroalkoxy (PFA) insulated probe cable in the following total probe lengths: 0.5, 1, 1.5, 2, 5, or 9 meters.

Armor (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.

