

Bently Nevada 330140&330141 Series Service Manual

330141-08-50-02-00

1. Description

Manufacturer : Bently Nevada

3. Product Information

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Manufacturer : Bently Nevada

Product No. :330141-08-50-02-00

Product Type : 330141 3300 XL 8 mm Probe with armor

Made in U.S.A

Overall Case Length 08=0.8in

Total Length Option: 50 5.0 meters (16.4 feet)

5-meter probes are designed for

use with the 5 meter Proximitor

sensor only.

C: Connector and Cable-Type Option

02 Miniature coaxial ClickLoc

connector, standard cable

Agency Approval Option

00 Not required

The 3300 XL probe and extension cable also reflect improvements over previous designs. A patented TipLoc molding method provides a more robust bond between the probe tip and the probe body. The probe's cable incorporates a patented CableLoc design that provides 330 N (75 lbf) pull strength to more securely attach the probe cable and probe tip.

You can also order 3300 XL 8 mm probes and extension cables with an optional FluidLoc cable option. This option prevents oil and other liquids from leaking out of the machine through the cable's interior.

8 mm probes provide

a thicker encapsulation

of the probe coil in the molded PPS plastic

probe tip. This results in

a more rugged probe.

The larger diameter of the probe body also provides

a stronger, more robust case. We

recommend that you use

8 mm probes when

possible to provide optimal robustness against physical abuse.

Nominal Probe DC Resistance

Resistance (RPROBE) from Center Conductor

to Outer Conductor

Probe

Length (m)

RPROBE(Ω)

5.0 8.73 $\pm$ 0.50

Incremental Scale Factor (ISF)

Standard 5 or 1

meter System

7.87 V/mm (200 mV/mil) $\pm$

5% including

interchangeability error

when measured in

increments of 0.25 mm (10

mils) over the 80 mil linear

range from 0°C to +45°C

(+32°F to +113°F).

Standard 9

meter System

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7.87 V/mm (200 mV/mil)

± 6.5% including

interchangeability error

when measured in

increments of 0.25 mm (10

mils) over the 80 mil linear

range from 0°C to +45°C

(+32°F to +113°F).

Extended

Temperature

Range (ETR) for 5

and 9 Meter

Systems

7.87 V/mm (200 mV/mil) ±

6.5% including

interchangeability error

when measured in

increments of 0.25 mm (10

mils) over the 80 mil linear

range from 0°C to +45°C

(+32°F to +113°F).

Deviation from best fit straight line (DSL)

Standard 5 or 1

meter System

Less than ±0.025 mm (±1

mil) with components at

0°C to +45°C (+32°F to

+113°F).

Standard 9

meter System

Less than ±0.038 mm (±1.5

mil) with components at

0°C to +45°C (+32°F to

+113°F).

Extended

Temperature

Range 5 and 9

meter Systems

Less than ±0.038 mm (±1.5

mil) with components at

0°C to +45°C (+32°F to

+113°F).

Probe Tip

Material Polyphenylene sulfide (PPS).

Probe Case

Material

AISI 303 or 304 stainless steel

(SST).

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

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+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.

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