

Bently Nevada 330101-00-13-10-02-00

Manufacturer : Bently Nevada

Product No. :330101-00-13-10-02-00

Product Type : 3300 XL 8 mm Probe, 3/8-24 UNF thread,
without armor

Made in U.S.A

330101 - 3300 XL 8 mm Probe, 3/8-24 UNF thread, without armor

Unthreaded Length Option 00=0.0 in

Overall Case Length Option :13=1.3 in

Total Length Option : 10= 1.0 meter (3.3 feet)

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

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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) 1.0
RPROBE(Ω)
 7.59 ± 0.50

Extension Cable
Capacitance
69.9 pF/m (21.3 pF/ft)
typical
Field Wiring
0.2 to 1.5 mm² (16 to 24
AWG). Recommend using
3 conductor shielded triad
cable and tinned field
wiring. Maximum length of
305 meters (1,000 feet)
between the 3300 XL
Proximity Sensor and the
monitor. See the frequency
response graphs, Figures
10 and 12, for signal rolloff
at high frequencies when

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using longer field wiring lengths.

Linear Range

2 mm (80 mils). Linear range begins at approximately 0.25 mm (10 mils) from target and is from 0.25 to 2.3 mm (10 to 90 mils) (approximately -1 to -17 Vdc).

Recommended

Gap Setting for

Radial Vibration

-9 Vdc [approximately 1.27 mm (50 mils)]

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

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

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

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).

323 g/m (11.4 oz)

Probe Temperature Range

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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.

Thread Engagement Limits

Probe Case Thread 3/8-24

Maximum Length of Thread Engagement
0.563 in

Probe Case Torque

Probe Type Standard forward mounted probes

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Maximum Rated 33.9 N•m (300 in•lbf)

Recommended 11.2 N•m (100 in•lbf)

Probe Case Torque

Probe Type Standard forward mount probes - first three threads

Maximum Rated 22.6 N•m (200 in•lbf)

Recommended 7.5 N•m (66 in•lbf)

Temperature Schedule

(Probe Only)

For EPL Ga and Gc

Temperature Classification T1 Ambient Temperature -55° C to +232° C

Temperature Classification T2 Ambient Temperature -55° C to +177° C

Temperature Classification T3 Ambient Temperature -55° C to +120° C

Temperature Classification T4 Ambient Temperature -55° C to +80° C

Temperature Classification T5 Ambient Temperature -55° C to +40° C

For EPL Dc

Temperature Classification T280° C @ Ta Ambient Temperature -55° C to +232° C

Temperature Classification T225° C @ Ta Ambient Temperature -55° C to +177° C

Temperature Classification T170° C @ Ta Ambient Temperature -55C to +120° C

Temperature Classification T130° C @ Ta Ambient Temperature -55° C to +80° C

Temperature Classification T105° C @ Ta Ambient Temperature -55° C to +100° C

Temperature Classification T90° C @ Ta Ambient Temperature -55° C to +40° C

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