

Bently Nevada 330101-00-76-05-01-00

Manufacturer : Bently Nevada

Product No. :330101-00-76-05-01-00

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 : 76=7.6 in

Total Length Option : 05= 0.5 meter (1.6 feet)

Connector and Cable-Type Option :

01= Miniature coaxial ClickLoc
connector with connector
protector, 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) 0.5
RPROBE(Ω)

7.45 $\pm$ 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

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10 and 12, for signal rolloff at high frequencies when 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

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and 9 Meter

Systems

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)

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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.

Thread Engagement Limits

Probe Case Thread 3/8-24

Maximum Length of Thread Engagement
0.563 in

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Probe Case Torque

Probe Type Standard forward mounted probes

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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