

Bently Nevada 330130-060-10-05

Manufacturer : Bently Nevada

Product No. 330130-060-10-05

Product Type : Extension Cable

Made in U.S.A

Cable Length Option : 060 6.0 meters (19.7 feet)

Connector Protector and Cable Option :10 FluidLoc cable

Approvals : 05 CSA, ATEX, IECEx Approvals

Extension

Cable 34 g/m (0.4 oz/ft)

0.204 kg

Armored

Extension

Cable

103 g/m (1.5 oz/ft)

0.618 KG

Proximity Sensor Input : Accepts one non-contacting 3300-series 5 mm. 3300 8 mm or 3300 XL 8 mm Proximity Probe and Extension Cable

Power : Requires -17.5 Vdc to -26 Vdc without barriers at 12 mA maximum consumption, -23 Vdc to -26 Vdc with barriers. Operation at a more positive voltage than -23.5 Vdc can result in reduced linear range

Supply Sensitivity : Less than 2 mV change in output voltage per volt change in input voltage

Output Resistance : 50 Ohm

Extension Cable Capacitance : 69.9 pF/m (21.3 pF/ft) typical

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Connectors : 3300 XL probe, extension cable, and Proximity sensor have corrosion-resistant, gold-plated ClickLoc* connectors

Each 3300 XL extension cable includes silicone tape that you can use instead of connector protectors. We do not recommend silicone tape for applications that will expose the probe-to-extension cable connection to turbine oil.

Nominal Extension Cable DC Resistance
Resistance (RCORE) from Center Conductor
to Center Conductor

Length of

Extension

Cable (m)

RCORE (Ω)

6.0 1.32 $\pm$ 0.21

Resistance (RJACKET) from Outer Conductor
to Outer Conductor

Length of

Extension

Cable (m)

RJACKET (Ω)

6.0 0.39 $\pm$ 0.08

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.

Unless otherwise noted, the following specifications are for a 3300 XL 8 mm Proximity Sensor, extension cable and 8 mm probe between +18° C and +27° C (+64° F to +80° F) at a maximum altitude of 2000 meters, with a -24 Vdc power supply, a 10 k Ω load, an AISI 4140 steel target, and a probe gapped at 1.27 mm (50 mils). Performance characteristics apply to systems that consist solely of 3300 XL 8 mm components. The system accuracy and interchangeability specifications do not apply to transducer systems that are calibrated to any target other than our AISI 4140 steel target.

Power

Requires -17.5 Vdc to -26 Vdc when installed with nonincendive circuit connected per installation drawing 140979 at 12 mA maximum consumption, -23 Vdc to -26 Vdc with barriers. Operation at a more positive voltage than -23.5 Vdc can result in reduced linear range.

Supply

Sensitivity

Less than 2 mV change in output voltage per volt change in input voltage.

Output

Resistance 50 Ω

Extension Cable

Capacitance

69.9 pF/m (21.3 pF/ft)
typical

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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 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).

Each 3300 XL extension cable includes silicone tape that you can use instead of connector protectors. We do not recommend silicone tape for applications that will expose the probe-to-extension cable connection to turbine oil.

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.

Less than a 3% change in Average Scale Factor (ASF) when tested in 93% humidity in

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accordance with IEC standard 68 2 3 for up to 56 days.



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