

## **Bently Nevada 330130-085-02-05**

Manufacturer : Bently Nevada

Product No.330130-085-02-05

Product Type : Extension Cable

Made in U.S.A

Cable Length Option : 085 8.5 meters (27.9 feet)

Connector Protector and Cable Option : 02 Standard cable with connector protector

Approvals 05 CSA, ATEX, IECEx Approvals

Extension  
Cable 34 g/m (0.4 oz/ft)  
0.289 kg

Armored  
Extension  
Cable  
103 g/m (1.5 oz/ft)  
0.875 KG

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

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Extension  
Cable (m)  
RCORE ( $\Omega$  )  
8.5 1.87  $\pm$  0.28

Resistance (RJACKET ) from Outer Conductor  
to Outer Conductor  
Length of  
Extension  
Cable (m)  
RJACKET ( $\Omega$  )  
  
8.5 0.56  $\pm$  0.11

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.

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 $\Omega$  load, an AISI 4140 steel target, and a probe gapped at 1.27 mm (50 mils). Performance characteristics

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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  $\Omega$



#### Extension Cable

##### Capacitance

69.9 pF/m (21.3 pF/ft)

##### typical

##### Field Wiring

0.2 to 1.5 mm<sup>2</sup> (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

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

Make sure that the extension cable  
length and the probe length, when  
added together, equal the  
Proximity Sensor total length.

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