

# Bently Nevada 330730&330930 Series Service Manual

330730-080-10-00

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## 1. Description

Manufacturer : Bently Nevada

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## 3. Product Information



Manufacturer : Bently Nevada

Product No. : 330730-080-10-00

Product type : 3300 XL 11 mm Extension Cable Cable Length Option : 080 = 8.0 metres (26.2 feet)

Connector and Cable Option : 10 = FluidLoc cable

Agency Approval Option : 00 = Not required

Extension cable capacitance: 69.9 pF/m (21.3 pF/ft) typical

Extension Cable Armor (optional): Flexible AISI 302 SST with FEP outer jacket.

Operating and Storage Temperature: -51°C to +177°C (-60°F to +351°F)

Weight : 0.36 Kg

Extension cable capacitance: 69.9 pF/m (21.3 pF/ft) typical

Extension Cable Material: 75 ? triaxial, fluoroethylene propylene (FEP) insulated.

Extension Cable Armor (optional): Flexible AISI 302 SST with FEP outer jacket.

Operating and Storage Temperature: -51°C to +177°C (-60°F to +351°F)

The 3300 XL 11 mm probe comes in varying

probe case configurations, including armored

and unarmored ½-20, 5/8 -18, M14 X 1.5 and M16

X 1.5 probe threads. The reverse mount 3300 XL

11 mm probe comes standard with either 3/8-24

or M10 X 1 threads. All components of the

transducer system have gold-plated brass

ClickLoc connectors. ClickLoc connectors lock

into place, preventing the connection from

becoming loose. The patented TipLoc molding

method provides a robust bond between the

probe tip and the probe body. The probe cable

is securely attached to the probe tip utilizing

our patented CableLoc design that provides

330 N (75 lb) pull strength.

3300 XL Probes and Extension Cables can also

be ordered with a FluidLoc cable option. This

option prevents oil and other liquids from

leaking out of the machine through the cable's

interior. The connector protector option

provides additional protection of the

connectors in a humid or moist environment.

Connector protectors are recommended for all

installations and provide increased

environmental protection<sup>2</sup>. Additionally, the

3300 XL 11 mm probe comes standard with a

locknut with pre-drilled safety wire holes.

Notes:

1. Proximitors Sensors are supplied by default from the factory calibrated to AISI 4140 steel. Calibration to other target materials is available upon request.

2. Silicone tape is also provided with each 3300 XL extension cable and can be used instead of connector protectors. Silicone tape is not recommended in applications where the probe-to-extension cable connection will be exposed to turbine oil.

Extension Cable dc Resistance

Length of

Extension

Cable (m) 8.0

Resistance

from Center

Conductor to

Center



Conductor  
(RCORE)  
(ohms)  
Resistance  
from Coaxial  
Conductor to  
Coaxial  
Conductor  
(RJACKET)  
(ohms)  
 $8.5 \pm 1.1$   
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) [0.25 to 0.75 mm<sup>2</sup> (18  
to 23 AWG) with ferrules].  
Recommend using threeconductor shielded triad  
cable. Maximum length of  
305 meters (1,000 feet)  
between the 3300 XL  
Proximito Sensor and the  
monitor. See the frequency  
response graph for signal  
rolloff at high frequencies  
when using longer field  
wiring lengths.  
Linear Range  
4.0 mm (160 mils). Linear  
range begins at  
approximately 0.5 mm (20  
mils) from target and is  
from 0.5 to 4.5 mm (20 to  
180 mils) (approximately -1  
to -17 Vdc). Extended  
Deviation from Straight  
Line (DSL) range is from  
approximately 0.5 to 5.0  
mm (20 to 200 mils) (-1 to  
-19 Vdc). The extended DSL  
range is not applicable  
when using zener barriers.  
Recommended  
Gap Setting 2.5 mm (100 mils)  
Mechanical  
Probe Tip  
Material Polyphenylene sulfide (PPS).  
Probe Case  
Material AISI 304 stainless steel (SST).  
Probe Cable  
Specification  
75  $\Omega$  triaxial, fluoroethylene  
propylene (FEP) insulated  
probe cable in the following  
total probe lengths: 1, 5 or 9  
meters.  
Extension Cable 45 g/m (0.5 oz/ft)



Armored  
Extension Cable 140 g/m (1.5 oz/ft)  
Extension Cable Temperature Range  
Operating and  
Storage  
Temperature  
-52°C to +177°C (-62°F to  
+351°F)  
Extension Cable  
Material  
75 Ω triaxial, fluoroethylene  
propylene (FEP) insulated.  
Extension Cable  
Armor  
(optional)  
Flexible AISI 302 SST with FEP  
outer jacket.

