

Bently Nevada 330730&330930 Series Service Manual

330730-080-00-CN

1. Description

Part Number: 330730-080-00-CN

3. Product Information

Part Number: 330730-080-00-CN

Model: Extension Cable

Manufacturer: Bently Nevada

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

Ordering Information

Model 330730 3300 XL 11 mm Extension Cable

Cable Length Option 080 8.0 metres (26.2 feet)

Connector and Cable Option 00 Standard cable

Agency Approval Option CN ATEX/IECEX and Chinese NEPSI hazardous area marking weight:0.36kg

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 protection2. Additionally, the

3300 XL 11 mm probe comes standard with a

locknut with pre-drilled safety wire holes.

Notes:

1. Proximity 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 ± 1.1
Extension cable
capacitance
69.9 pF/m (21.3 pF/ft)
typical
Field wiring
0.2 to 1.5 mm² (16 to 24
AWG) [0.25 to 0.75 mm² (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 Ω 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

Aarmor

(optional)

Flexible AISI 302 SST with FEP

outer jacket.

