Bently Nevada 330730&330930 Series Service Manual

330730-080-13-05

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. : 330730-080-13-05

Product Type : 3300 XL 11 mm Extension Cable

Made in U.S.A

Cable Length Option : 080 = 8.0 metres (26.2 feet)

Connector and Cable Option : 13 Armored FluidLoc cable with

connector protector

Agency Approval Option : 05 Multiple Approvals

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. Proximitor 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) 2.0 ± 0.5
Resistance
from Coaxial
Conductor to
Coaxial
Conductor
(RJACKET)
(ohms) 0.6 ± 0.2
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
Proximitor 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 Armor (optional)	Flexible AISI 302 SST with FEP outer jacket.