

Bently Nevada 330180&330780&330980 Series Service Manual

330780-080-13-00

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. :330780-080-13-00

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 : 3 Armored FluidLoc cable with
connector protector

Agency Approval Option :

00 Not required

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. 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)

Resistance

from Center

Conductor to

Center

Conductor
(RCORE)
(ohms)
Resistance
from Coaxial
Conductor to
Coaxial
Conductor
(RJACKET)
(ohms)
8.0 2.0 ± 0.5 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
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
Armor
(optional)
Flexible AISI 302 SST with FEP
outer jacket.

