

Bently Nevada 330190 Series Service Manual

330190-035-00-00

1. Description

Manufacturer : Bently Nevada

3. Product Information

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Manufacturer : Bently Nevada
Manufacturer : Bently Nevada
Product No. : 330190-035-00-00
Product Type : 3300 XL Extended Temperature Range (ETR) Extension Cable
Cable Length Option : 035 = 3.5 meters (13.1 feet)
Cable Option : 00 = Standard cable
Agency Approval Option : 00 - Not required
Nominal Extension Cable DC Resistance
Resistance (RCORE) from Center Conductor
to Center Conductor
Length of Extension Cable (m) 4.5 metres (14.8 feet)
RCORE (Ω) 0.77 $\pm$ 0.12
Resistance (RJACKET) from Outer Conductor
to Outer Conductor
Length of Extension Cable (m) 3.5m
RJACKET (Ω) : 0.23 $\pm$ 0.05
Extension Cable Capacitance 69.9 pF/m (21.3 pF/ft) typical
Field Wiring
0.2 to 1.5 mm² (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
Proximito Sensor and the
monitor. See the frequency
response graphs, Figures
10 and 12, for signal rolloff
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).
Recommended
Gap Setting for
Radial Vibration
-9 Vdc [approximately 1.27
mm (50 mils)]
Extension Cable Material
Standard
cable
75 Ω triaxial, fluoroethylene
propylene (FEP) insulated
Extended
Temperature
Range cable
75 Ω triaxial, perfluoroalkoxy
(PFA) insulated.
Minimum
Cable Bend
Radius
25.4 mm (1.0 in)

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3300 XL 8 mm components are both electrically and physically interchangeable with non-XL 3300 5 mm and 8 mm components when minimum permissible cable bend radius is observed.

Connector

Material

Gold-plated brass or goldplated beryllium copper.

Maximum

Connector

Torque

0.565 N•m (5 in•lbf)

Extension

Cable 34 g/m (0.4 oz/ft)

Armored

Extension

Cable

103 g/m (1.5 oz/ft)

Extension Cable Temperature Range

Operating and Storage Temperature

Standard

Cable

-52°C to +177°C

(-62°F to +350°F)

Extended

Temperature

Range Cable

-52°C to +260°C (-62°F to

+500°F)

Compliance and Certifications

FCC

This device complies with part 15 of the

FCC Rules. Operation is subject to the

following two conditions:

I This device may not cause harmful interference.

I This device must accept any interference received, including interference that may cause undesired operation.

EMC

European Community Directive:

EMC Directive 2014/30/EU

Standards

EN 61000-6-2; Immunity for

Industrial Environments

EN 61000-6-4; Emissions for

Industrial Environments

RoHS

European Community Directive:

RoHS Directive 2011/65/EU

Maritime

2019 Rules for Conditions of Classification,

Part 1, 1-1-1/7.7, 1-1-A3, 1-1-A4

2019 Rules for Conditions of Classification,

Part 1, Offshore Units and Structures

1-1-4/9.7, 1-1-A2, 1-1-A3

Functional Safety

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SIL 2, HFT = 0
SIL 3, HFT = 1

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