

Bently Nevada 330190 Series Service Manual

330190-085-01-CN

1. Description

Manufacturer : Bently Nevada

3. Product Information

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Manufacturer : Bently Nevada
 Manufacturer : Bently Nevada
 Product No. :330190-085-01-CN
 Product Type : 3300 XL Extended Temperature Range (ETR) Extension Cable
 Cable Length Option : 085 --8.5 meters (27.9 feet)
 Cable Option : 01-- Armored cable
 Agency Approval Option : CN= China Country approval
 Nominal Extension Cable DC Resistance
 Resistance (RCORE) from Center Conductor
 to Center Conductor
 Length of Extension Cable (m) 085 --8.5 meters (27.9 feet)
 RCORE (Ω) 1.87 $\pm$ 0.28
 Resistance (RJACKET) from Outer Conductor
 to Outer Conductor
 Length of Extension Cable (m) 085 --8.5 meters (27.9 feet)
 RJACKET (Ω) :0.56 $\pm$ 0.11
 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

www.AutoDCSTech.com

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

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