

Bently Nevada 330930-045-06-00 Manual

Brand	Bently Nevada
Product Series	330730&330930
Product Type	3300 NSv Extension Cable

Description

Manufacturer : Bently Nevada

Product No. : 330930-045-06-00

Product type : 3300 NSv Extension Cable

Made in U.S.A

Cable Length Option : 045 =4.5 meters (14.8 feet)

Connector and Cable Option :06= FluidLoc cable without stainless steel armor

Agency Approval Option : 00= Not Required

Extension Cable Material : 75 Ω coaxial, fluoroethylene propylene (FEP) insulated.

Operating and Storage Temperature: -51°C to +177°C (-60°F to +351°F)

Shipping weight : 1.5 Kg

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Make sure that the extension cable length and the probe length, when added together, equal the Proximity Sensor total length.

Extension cable

dc resistance

Center conductor: 0.220

Ω /m (0.067 Ω /ft)

Shield: 0.066 Ω /m (0.020

Ω /ft)

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 NSv

Proximity Sensor and the

monitor. See the frequency

response graphs Figure 16 and Figure 17 for signal rolloff at high frequencies when using longer field wiring lengths.

Linear Range

1.5 mm (60 mils). Linear range begins at approximately 0.25 mm (10 mils) from target and is from 0.25 to 1.75 mm (10 to 70 mils) (approximately -1 to -13 Vdc).

Recommended

Gap Setting 1.0 mm (40 mils)

Extension

Cable Material

75 Ω coaxial, fluoroethylene propylene (FEP) insulated.

Extension

Cable Armor

(optional)

Flexible AISI 302 SST with/without FEP outer jacket.

Tensile

Strength

(maximum rated)

220 N (50 lb) probe case to probe lead. 220 N (50 lb) at probe lead to extension cable connectors. 220 N (50 lb) probe case to stainless steel armor.

Connector

material Gold-plated brass

Operating and

Storage

Temperature

-52°C to +177°C (-62°F to +351°F)

Temperature Schedule

Ambient Temperature

(Probe Only)

For EPL Ga and Gc

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Temperature Classification T1 Ambient Temperature -55°C to +232°C

Temperature Classification T2 Ambient Temperature -55°C to +177°C

Temperature Classification T3 Ambient Temperature -55°C to +120°C

Temperature Classification T4 Ambient Temperature -55°C to +80°C

Temperature Classification T5 Ambient Temperature -55°C to +40°C

For EPL Dc

Temperature Classification T280°C @ Ta Ambient Temperature -55°C to +232°C

Temperature Classification T225°C @ Ta Ambient Temperature -55°C to +177°C

Temperature Classification T170°C @ Ta Ambient Temperature -55°C to +120°C

Temperature Classification T130°C @ Ta Ambient Temperature -55°C to +80°C

Temperature Classification T105°C @ Ta Ambient Temperature -55°C to +100°C

Temperature Classification T90°C @ Ta Ambient Temperature -55°C to +40°C

Effects of 60 Hz Magnetic Fields Up to 300

Gauss (5 meter system)

Output voltage in mil pp/gauss

Gap 0.25 mm (10 mils) Proximitior Sensor 0.006 Probe 0.001 Ext. Cable 0.001

Gap 1.0 mm (40 mils) Proximitior Sensor 0.007 Probe 0.002 Ext. Cable 0.001

Gap 1.75 mm (70 mils) Proximitior Sensor 0.008 Probe 0.002 Ext. Cable 0.003

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