Bently Nevada 330730&330930 Series Service Manual

330930-045-06-00

1. Description

Manufacturer : Bently Nevada

3. Product Information

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

Make sure that the extension cable

length and the probe length, when

added together, equal the

Proximitor 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

Proximitor 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

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 -55C 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) Proximitor Sensor 0.006 Probe 0.001 Ext. Cable 0.001

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

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