# Bently Nevada Service Manual

330301-000-011-10-90-01-00

## 1. Description

Manufacturer : Bently Nevada

## 3. Product Information

Manufacturer : Bently Nevada

Product No. : 330301-000-011-10-90-01-00

Product type : 3300 XL High Temperature Probe, 3/4-16 UNF threads

Made in U.S.A

Unthreaded Length Option: 000 = 0 in

Overall Case Length Option: 011 = 1.1 in

Hardline Length Option : 10 = 1.0 metre (3.3 feet)

Total Length Option: Note: Extension cable is included with the proximity probe. : 90 = 9.0 metres (30 feet)

Extension Cable Armor Option: 01 = With stainless steel armor

Agency Approval Option : 00 = Not required

Probe dc Resistance

Probe Length (m) 1.0

Resistance from the Center Conductor to the Outer Conductor (RpROBE) (°hms) 5.06

Incremental Scale

Factor (ISF)

3.94 V/mm (100

mV/mil) ±9.65%

including

interchangeability

error when measured

in increments of 0.5

mm (20 mils) over the

4.0 mm (160 mil) linear

range.

Deviation from best fit

straight line (DSL)

Less than ±78 |xm

(±3.1 mils).

System performance

over extended

temperatures

Over a probe

temperature range of

22oCto+350°C

(72oFto+662oF) the ISF

remains within ±30%

of 3.94 V/mm (100

mV/mil), the DSL

remains within ±0.51

mm (±20 mils).

Frequency Response

0 to 6 kHz: +0, -3 dB

typical, with up to 305

metres (1000 feet) of

field wiring.

Recommended

Minimum Target Size

30.5 mm (1.2 in)

diameter (flat target)

Recommended

Minimum Shaft

Diameter

152 mm (6.0 in)

Probe Tip

Material Ceramic

Probe Case

Material AISI 316L stainless steel (SST).

Probe

117 g/m (1.26 oz/ft) of

| | |
|---|---|
| hardline cable + 12 g/cm (1.07 oz/in) of case | |
| Operating and Storage Temperature | -34°C to+350°C (-30°F to +662°F) |