

Bently Nevada Service Manual

330301-000-011-50-90-00-05

1. Description

Manufacturer : Bently Nevada

3. Product Information

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Product No. : 330301-000-011-50-90-00-05

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 : 50 =5.0 metres (16.4 feet)

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

Extension Cable Armor Option: 00= Without stainless steel armor

Agency Approval Option : 05= Multiple Approvals

Probe dc Resistance

Probe Length (m) 5.0

Resistance from the Center Conductor to the Outer Conductor (RpROBE) (°hms) 8.11

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)

