

# Bently Nevada 146055-50-02-00 Manual

|                |               |
|----------------|---------------|
| Brand          | Bently Nevada |
| Product Series | 146054 146055 |
| Product Type   | Option: 0 2=  |

## Description

Part Number: 146055-50-02-00

Model:3300 Ceramic Capped Reverse Mount Probes

Manufacturer: Bently Nevada

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

### Ordering Information

146055-AA-BB-CC

146055 :3/8-24 UNF threads

A: Total Length Option: -5 0= 5.0 meters (16.4 feet)

B: Connector and Cable-Type Option: 0 2=

Miniature ClickLoc coaxial connector, standard cable

C: Agency Approval Option: -00=Not required

Probes ordered with 5 m or 9 m integral cables have a length tolerance of +20% -0%.

5 m probes are designed for use with the 5 m Proximitor Sensor only.

Probe Case Thread:3/8-24

Maximum Length of Thread

Engagement

0.563 in

Probe Nominal DC Resistance

Probe Length 5.0

Resistance from the Center

Conductor to the Outer

Conductor (ohms)

8.73 ± 0.70

Unless otherwise noted, the following

specifications are for a 3300 5 mm system

including Proximitor Sensor, extension cable

and probe between +18°C and +27°C (+64°F to

+80°F), with a -24 Vdc power supply, a 10 kW

load, and an AISI 4140 steel target. Performance

characteristics apply to systems that consist

solely of 3300 XL components. The system accuracy and interchangeability specifications do not apply when using a transducer system calibrated to any target other than our AISI 4140 steel target.

#### Linear Range

1.52 mm (60 mils). Linear range begins at approximately 0.25 mm (10 mils) from target and is from 0.25 to 1.78 mm (10 to 70 mils) (approximately  $-4$  to  $-16$  Vdc).

#### Incremental Scale Factor (ISF)

##### Standard

5-metre or

9-metre system

7.87 V/mm (200 mV/mil)

$\pm 6.5\%$  including

interchangeability error

when measured in

increments of 0.25 mm (10

mils) over the 60 mil linear

range from  $0^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$

( $+32^{\circ}\text{F}$  to  $+113^{\circ}\text{F}$ ).

##### Mechanical

##### Probe Tip

##### Material

Alumina ceramic ( $\text{Al}_2\text{O}_3$

)

##### Probe Case

Material AISI 304 stainless steel.

##### Probe Cable Specifications

##### Standard

cable

75  $\Omega$  coaxial, fluoroethylene

propylene (FEP) insulated probe

cable in the following total

probe lengths: 0.5, 1, 2, 5, or 9

meters.

##### Probe Temperature Range

##### Operating and

##### Storage

##### Temperature

$-51^{\circ}\text{C}$  to  $+177^{\circ}\text{C}$  ( $-60^{\circ}\text{F}$  to

$+351^{\circ}\text{F}$ )

##### Probe

##### Pressure

Rated to seal 34 Bar (500 psi)

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nitrogen. Modifications are available for higher-pressure applications. Contact our custom design department if you require a test of the pressure seal for your application.

#### Temperature Schedule

##### Temperature

##### Classification

##### Ambient Temperature

##### (Probe Only)

For EPL Ga and Gc

T1 -55°C to +232°C

T2 -55°C to +177°C

T3 -55°C to +120°C

T4 -55°C to +80°C

T5 -55°C to +40°C

For EPL Dc

T280°C @ Ta -55°C to +232°C

T225°C @ Ta -55°C to +177°C

T170°C @ Ta -55°C to +120°C

T130°C @ Ta -55°C to +80°C

T105°C @ Ta -55°C to +100°C

T90°C @ Ta -55°C to +40°C

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