

# Bently Nevada 146054-036-50-02-05 Manual

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

## Description

Part Number: 146054-036-50-02-05  
 Model: 3300 Ceramic Capped Proximity Probes  
 Manufacturer: Bently Nevada  
 Condition: New & Original in Factory Packing  
 Factory Warranty: 12 Months

### Ordering Information

146054-AA-BB-CC-DD

146054 : 3300 Ceramic Capped Probe, 3/8-24 UNF thread, without armor

A: Overall Case Length Option: -036=3.6 in

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

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

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

Miniature coaxial ClickLoc

connector, standard cable

D: Agency Approval Option: -05=CSA, ATEX, IECEx

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)

±6.5% including

interchangeability error

when measured in

increments of 0.25 mm (10

mils) over the 60 mil linear

range from 0°C to +45°C

(+32°F to +113°F).

##### Mechanical

##### Probe Tip

##### Material

Alumina ceramic (Al<sub>2</sub>O<sub>3</sub>

)

##### Probe Case

Material AISI 304 stainless steel.

##### Probe Cable Specifications

##### Standard

cable

75 Ω 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°C to +177°C (-60°F to

+351°F)

##### Probe

##### Pressure

Rated to seal 34 Bar (500 psi)

nitrogen. Modifications are

available for higher-pressure

applications. Contact our

[www.AutoDCSTech.com](http://www.AutoDCSTech.com)

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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