

Bently Nevada 146054-08-50-01-00 Manual

Brand	Bently Nevada
Product Series	146054 146055
Product Type	Option: 0 1=Miniature coaxial ClickLoc

Description

Part Number: 146054-08-50-01-00
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: -08=0.8 in

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

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

C: Connector and Cable-Type Option: 0 1=Miniature coaxial ClickLoc connector with connector protector, standard cable

D: Agency Approval Option: -00=Not required

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 Proximity 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 (Al₂O₃

)

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

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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