

Bently Nevada 146055-50-02-05 Manual

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

Description

Part Number: 146055-50-02-05

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: -0 5 = Multiple Approvals

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°C to $+45^{\circ}\text{C}$

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

Mechanical

Probe Tip

Material

Alumina ceramic (Al_2O_3

)

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 $+177^{\circ}\text{C}$ (-60°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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