# Bently Nevada 21000&24701 Series Service Manual

21000-16-05-15-102-03-02

## 1. Description

Product Number: 21000-16-05-15-102-03-02

## 3. Product Information

Product Number: 21000-16-05-15-102-03-02

Model: Proximity Probe Housing Assemblies

Manufacturer: Bently Nevada

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

21000 - AA-BB-CC-DDD-EE-FF

Ordering Information

Model: 21000 - Proximity Probe Housing Assemblies

Suffix Codes:

Probe Option, with Connector: 16 3300 XL 8 mm probe

Probe Cable Length Option: 05 0.5 m (20 in)

Standoff Adapter: 1.5 in (38 mm) = 15

Probe Penetration (Option D Dimension)□102=10.2in

Probe P/N and S/N may be displayed on a flag
label for some combinations of the C plus D
options where only a small section of the probe
cable is visible.

For probe penetration lengths between 1.0 and
2.0 inches, it may be necessary to counter bore
the machine case to reduce probe side view or
rear view effects.

If you select a probe penetration length (C plus
D) greater than 300 mm (12 in), you must add
sleeve support near the probe to prevent
resonance from occurring. Adjustment range of
probe penetration option D is 13 mm (± 0.5 in).

Fittings: -03 One 3/4-14 NPT plug

One 3/4-14 to 1/2-14 NPT reducer

One cable seal grip with grommets for
the following cable sizes:

• 1/8 to 3/16 inches

• 1/4 to 5/16 inches

• 5/16 to 3/8 inches

Mounting Thread

02 3/4-14 NPT

Will default to 02 option if C: Option Standoff Adapter Length
option is not 00.

Material

21000 Aluminum body with 304
stainless steel sleeve

Probe
Cable
Length
Maximum (C) +
(D)
with visible probe
(P/N and S/N)
Maximum (C) +
(D) Dimension
0.5 m Not visible 13.5 in (34.3 cm)
1.1 kg (2.4 lb) typical,
without fittings

The 21000 and 24701 Proximity Probe Housing Assemblies
consist of the following parts:

l A dome cover that screws into the body of the housing

l Threaded ports for conduit connections

l A probe sleeve of optional length

l 0-rings

l A reverse mount proximity probe

l A thread seal

l Optional conduit fittings

l An optional standoff adapter

The 21000 and 24701 Proximity Probe Housing Assemblies are available with Canadian Standards Association (CSA) approvals. They are rated explosion proof for hazardous areas.

You can order hazardous area approved proximity probes with 21000 aluminum and 24701 stainless steel housings for intrinsically safe applications. Both housings are certified as CSA Type 4 enclosures and are fully compliant with the American Petroleum Institute's (API) 670 Standard for externally mounted proximity probe housings.

Compliance and Certifications

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

l This device may not cause harmful interference.

l This device must accept any interference received, including interference that may cause undesired operation.

RoHS

RoHS Directive 2011/65/EU

Hazardous Area Approvals

CA housings are certified by CSA for explosion - proof applications in the following areas:

North America

Class 1 Divisions 1 and 2 Groups C and D

Class 2 Divisions 1 and 2 Groups E, F and G

Circuit is non-incendive when connected per drawing 140979

Class III

Enclosure Type 4

T5 @ Ta = -50 °C to +40 °C

T4 @ Ta = -50 °C to +80 °C