Bently Nevada 31000&32000 Series Service Manual

31000-16-10-00-159-00-02

1. Description

"Manufacturer : Bently Nevada

3. Product Information

"Manufacturer : Bently Nevada

Product No. : 31000-16-10-00-159-00-02

Product type : 31000 Proximity Probe Housings

Made in U.S.A

A: Probe Option, With Connector : 16 = 3300 XL 8 mm probe

B: Probe Cable Length Option :10=1.0 in

C: Standoff Adapter Option : 00= No standoff adapter

D: Probe Penetration Option :159=15.9 in

E: Fittings Option :

00 = Without fittings

F: Mounting Thread Option : 02= 3/4-14 NPT (Required if ordering Standoff Adapter Option.)

Protection Ratings: Type 4X rating certified by Canadian Standards Association (CSA). IP66 rating verified by SC115582-1 (e) 106. CENELEC standard EN50014 rating for electrostatic dissipation of a plastic material located in a hazardous area.

Housing Material: Glass-reinforced Polyphenylene Sulfide (PPS) thermoplastic containing conductive fibers

Sleeve Material and Retaining Chain: AISI 304 stainless steel

Outer Sleeve and Exterior Screws: AISI 303 stainless steel

O-Ring Material: Neoprene®

Housing Impact Strength: Certified by BASEEFA to withstand two separate 4 Joule (3.0 ft·lb) impacts at -39°C (-38°F) and at 115 °C (239°F). Samples of the housing and cover were verified by CSA to withstand a 7 Joule (5.2 ft·lb) impact at ambient room temperature.

Temperature Rating: -51°C to +105°C (-60°F to +221°F)

Weight : 1.2 Kg

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material located in a hazardous
area.
Housing
Material
Glass-reinforced Polyphenylene
Sulfide (PPS) thermoplastic
containing conductive fibers
Sleeve Material
and Retaining
Chain
AISI 304 stainless steel
Outer Sleeve
and Exterior
Screws
AISI 303 stainless steel
O-Ring
Material Neoprene
Recommended
Torque
(retaining nut)
29.4 N·m (260 in·lb)
Housing
Strength
(typical)
Outer sleeve was mounted on a test
stand with its axis parallel to
horizontal and the housing
mounted on the outer sleeve
through an end hole. The housing
supported 912 N (205 lb) placed

approximately 38 mm (1.5 inches)
from the unsupported end with the
cover fastened in place and
grounding liner installed.
Housing
Impact
Strength
Certified by BASEEFA to withstand
two separate 4 Joule (3.0 ft·lb)
impacts at -39°C (-38°F) and at 115
°C (239°F). Samples of the housing
and cover were verified by CSA to
withstand a 7 Joule (5.2 ft·lb)
impact at ambient room
temperature.
Weight 1.2 kg (2.6 lb) typical
The 31000 Proximity Probe Housing
Assembly is designed to seal differential
pressure between the probe tip and the
housing main body when used with a 3300 XL 8
mm probe. The sealing material internal to the
probe case consists of a Viton O-ring; the Oring between the sleeve and the housing is a
Neoprene O-ring. The plastic housing is certified to seal against hose-directed water
according to NEMA 4X and IP66 standards but
is not designed to resist internal or external
pressure. Probes are not pressure tested prior
to shipment. Contact our custom design
department if you require a test of the pressure
seal for your application.