Bently Nevada 31000&32000 Series Service Manual

31000-30-05-15-031-03-02

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. : 31000-30-05-15-031-03-02

Product type : 31000 Proximity Probe Housings

Made in U.S.A

Probe Option, With Connector : 30=3300 XL 8 mm probe, with connector protector, multiple approvals

Probe Cable Length Option : 05 = 0.5 metre (20 in)

Standoff Adapter Option :15=Minimum length 1.5 in (38 mm)

Probe Penetration Option : 031= 3.1 in

Fittings Option :

03

Two plugs, one 3/4-14 NPT fitting

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

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

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