

21000-16-10-15-144-03-02

21000 Aluminum Proximity Probe Housing Assembly

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 21000-16-10-15-144-03-02 is a 21000 aluminum external proximity-probe housing configured with a 3300 XL 8 mm probe, 1.0 m probe cable, 1.5 in standoff adapter and 14.4 in penetration option. It supports pro

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Bently Nevada article.

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Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm the full 21000-16-10-15-144-03-02 marking and the 144 penetration code.
- 2

Place the monitored machine and associated protection channel in the approved maintenance state.
- 3

Isolate connected circuits and use ESD controls while handling the probe lead and connector.
- 4

Inspect the aluminum body, dome cover, O-rings, stainless-steel sleeve and thread seal.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	21000-16-10-15-144-03-02
Host / carrier	Bently Nevada 21000 / 24701 Proximity Probe Housing Assemblies
Primary system role	Provides an external protective enclosure for the proximity probe
Acceptance boundary	Seal the conduit, restore the signal loop and prove polarity, response and alarm action before release.
Source record	21000, 24701, and 164818 Proximity Probe Housing Assemblies Datasheet

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Mount 21000-16-10-15-144-03-02 through the documented 3/4-14 NPT machine-case connection and preserve the 1.5 in standoff and 14.4 in probe-penetration setting. Support the sleeve when required, route and seal the 1.0 m lead,

- 1

Verify the 3/4-14 NPT mounting thread, standoff adapter and conduit fitting arrangement.
- 2

Support long sleeves as required and keep the probe lead longer than the installed sleeve.
- 3

Set the 3300 XL 8 mm probe gap while maintaining shaft and target clearances.
- 4

Seal the conduit, restore the signal loop and prove polarity, response and alarm action before release.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm 21000-16-10-15-144-03-02, 21000 aluminum housing, 3300 XL 8 mm probe option, 1.0 m cable, 1.5 in standoff, 14.4 in penetration, 3/4-14 NPT mounting thread, fitting set, sleeve support, O-rings, conduit sealing, target clearance, grounding, monitor configuration, static gap and

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	21000-16-10-15-144-03-02
Host match	Bently Nevada 21000 / 24701 Proximity Probe Housing Assemblies
Connection proof	Support long sleeves as required and keep the probe lead longer than the installed sleeve.
Configuration proof	Set the 3300 XL 8 mm probe gap while maintaining shaft and target clearances.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Seal the conduit, restore the signal loop and prove polarity, response and alarm action before release.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

Bearing-case proximity probe mounting

Supports deep machine-case penetration for relative shaft measurement.

External radial-vibration sensing

Houses the probe and protects its lead at a documented radial location.

Axial-position probe access

Provides an adjustable external mounting path where the approved machine design requires it.

Probe replacement without case entry

Allows the sleeve and probe arrangement to be serviced from outside the machine case.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
21000-16-10-15-114-03-02	aluminum probe housing	View 21000-16-10-15-114-03-02 page
24701-34-05-00-041-03-02	stainless-steel probe housing	View 24701-34-05-00-041-03-02 page
31000-27-05-15-040-03-02	probe housing assembly	View 31000-27-05-15-040-03-02 page
330103-00-04-10-02-00	matching XL 8 mm probe	View 330103-00-04-10-02-00 page
330104-00-12-10-02-00	armored XL 8 mm probe	View 330104-00-12-10-02-00 page
330130-080-00-00	extension cable	View 330130-080-00-00 page
330180-50-00	Proximitor sensor	View 330180-50-00 page
3500/40M	176449-01 proximity monitor	View 3500/40M page

MANUFACTURER SOURCE RECORD

21000, 24701, and 164818 Proximity Probe Housing Assemblies Datasheet
Baker Hughes document 141600 Rev. AC

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