

21000-16-10-15-102-03-02

21000 Aluminum Proximity Probe Housing Assembly

Bently Nevada 21000-16-10-15-102-03-02 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 10.2 in penetration option. It supports pro

BRAND	Bently Nevada	FAMILY	Bently Nevada 21000 / 24701 Proximity Probe Housing Assemblies
PART	21000-16-10-15-102-03-02	SYSTEM ROLE	Provides an external protective enclosure for the proximity probe

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2

MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

Bently Nevada 21000-16-10-15-102-03-02 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 10.2 in penetration option. It supports pro

FUNCTION 1

Provides an external protective enclosure for the proximity probe

FUNCTION 2

Allows controlled adjustment of the installed probe position

FUNCTION 3

Routes the probe lead through a sealed conduit interface

FUNCTION 4

Supports API 670-style externally mounted probe arrangements

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 21000 / 24701 Proximity Probe Housing Assemblies
Primary interface	Provides an external protective enclosure for the proximity probe
Engineering context	The assembly mounts externally to the machine case through the selected 3/4-14 NPT thread. Its aluminum body, stainless-steel sleeve, standoff adapter, adjustable penetration and conduit fittings protect the probe installation; co
Commissioning duty	Seal the conduit, restore the signal loop and prove polarity, response and alarm action before release.

TECHNICAL NOTE

Mount 21000-16-10-15-102-03-02 through the documented 3/4-14 NPT machine-case connection and preserve the 1.5 in standoff and 10.2 in probe-penetration setting. Support the sleeve when required, route and seal the 1.0 m lead,

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Complete order number	21000-16-10-15-102-03-02	Probe penetration option	10.2 in
Housing series	21000	Fittings option	One 3/4-14 NPT plug; 3/4-14 to 1/2-14 NPT reducer; cable seal grip
Housing body	Aluminum	Mounting thread	3/4-14 NPT
Probe sleeve	304 stainless steel	Adjustment range	±0.5 in
Installed probe option	3300 XL 8 mm probe	Probe operating and storage temperature	-51 to +177 °C
Probe cable length	1.0 m	Enclosure	CSA Type 4
Standoff adapter	1.5 in		

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/42M	176449-02 seismic monitor	View 3500/42M page
21000-16-10-15-057-03-02	aluminum probe housing	View 21000-16-10-15-057-03-02 page
21000-16-10-15-114-03-02	aluminum probe housing	View 21000-16-10-15-114-03-02 page
21000-16-10-15-144-03-02	aluminum probe housing	View 21000-16-10-15-144-03-02 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

ENGINEERING BOUNDARY

Confirm 21000-16-10-15-102-03-02, 21000 aluminum housing, 3300 XL 8 mm probe option, 1.0 m cable, 1.5 in standoff, 10.2 in penetration, 3/4-14 NPT mounting thread, fitting set, sleeve support, O-rings, conduit sealing, target clearance, grounding, monitor configuration, static gap and

Applications and Precautions

Common Applications

Bearing-case proximity probe mounting

Supports medium-depth machine-case access 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.

Product Precautions

- 1

Confirm the full 21000-16-10-15-102-03-02 marking and the 102 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.
- 5

Verify the 3/4-14 NPT mounting thread, standoff adapter and conduit fitting arrangement.
- 6

Support long sleeves as required and keep the probe lead longer than the installed sleeve.
- 7

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

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

IMPORTANT NOTICE

Confirm 21000-16-10-15-102-03-02, 21000 aluminum housing, 3300 XL 8 mm probe option, 1.0 m cable, 1.5 in standoff, 10.2 in penetration, 3/4-14 NPT mounting thread, fitting set, sleeve support, O-rings, conduit sealing, target clearance, grounding, monitor configuration, static gap and

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	21000-16-10-15-102-03-02
Configuration	Set the 3300 XL 8 mm probe gap while maintaining shaft and target clearances.
Functional release	Seal the conduit, restore the signal loop and prove polarity, response and alarm action before release.

Engineer FAQ

Q1 What exact function does 21000-16-10-15-102-03-02 perform as a 21000 Aluminum Proximity Probe Housing Assembly?

It externally houses and positions the selected 3300 XL 8 mm probe while routing its lead through the conduit fittings.

Q3 Which connection checks are required for 21000-16-10-15-102-03-02?

Inspect the mounting thread, sleeve, standoff, O-rings, dome cover, fittings and lead route.

Q5 Which diagnostic evidence should be reviewed for 21000-16-10-15-102-03-02?

Review static gap, signal polarity, baseline, conduit sealing and monitor-channel diagnostics.

Q7 How should 21000-16-10-15-102-03-02 be commissioned after installation?

Seal the conduit, establish the linear-region gap and prove monitor response and alarm action under control.

Q2 Which host system must be confirmed before installing 21000-16-10-15-102-03-02?

Confirm the documented Bently Nevada 21000 / 24701 Proximity Probe Housing Assemblies host and the complete 21000-16-10-15-102-03-02 marking before work.

Q4 How should the installed configuration for 21000-16-10-15-102-03-02 be preserved?

Retain the documented standoff, penetration, fittings and matched proximity-transducer loop.

Q6 What must be recorded before replacing 21000-16-10-15-102-03-02?

Record the complete order code, 102 penetration option, installed thread, sleeve support and signal-loop components.

Q8 Which model-specific limitation applies to 21000-16-10-15-102-03-02?

The sleeve must be supported when the installed C plus D length exceeds the manufacturer threshold, and the probe lead must remain longer than the sleeve.

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2