

# 21000-16-10-15-057-03-02

## 21000 Aluminum Proximity Probe Housing Assembly

Bently Nevada 21000-16-10-15-057-03-02 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 5.7 in penetration option. It supports prot

|       |                          |             |                                                                   |
|-------|--------------------------|-------------|-------------------------------------------------------------------|
| BRAND | Bently Nevada            | FAMILY      | Bently Nevada 21000 / 24701 Proximity Probe Housing Assemblies    |
| PART  | 21000-16-10-15-057-03-02 | SYSTEM ROLE | Provides an external protective enclosure for the proximity probe |

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### MANUFACTURER SOURCE RECORD

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

# Product Overview

## SYSTEM FUNCTION

Bently Nevada 21000-16-10-15-057-03-02 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 5.7 in penetration option. It supports prot

### 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 21000-16-10-15-057-03-02 through the documented 3/4-14 NPT machine-case connection and preserve the 1.5 in standoff and 5.7 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  | 21000-16-10-15-057-03-02 | Probe penetration option                | 5.7 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                                   |
|--------------------------|-----------------------------|----------------------------------------------------|
| 330103-00-04-10-02-00    | matching XL 8 mm probe      | <a href="#">View 330103-00-04-10-02-00 page</a>    |
| 330104-00-12-10-02-00    | armored XL 8 mm probe       | <a href="#">View 330104-00-12-10-02-00 page</a>    |
| 330130-080-00-00         | extension cable             | <a href="#">View 330130-080-00-00 page</a>         |
| 330180-50-00             | Proximitor sensor           | <a href="#">View 330180-50-00 page</a>             |
| 3500/40M                 | 176449-01 proximity monitor | <a href="#">View 3500/40M page</a>                 |
| 3500/42M                 | 176449-02 seismic monitor   | <a href="#">View 3500/42M page</a>                 |
| 21000-16-10-15-102-03-02 | aluminum probe housing      | <a href="#">View 21000-16-10-15-102-03-02 page</a> |
| 21000-16-10-15-114-03-02 | aluminum probe housing      | <a href="#">View 21000-16-10-15-114-03-02 page</a> |

ENGINEERING BOUNDARY

Confirm 21000-16-10-15-057-03-02, 21000 aluminum housing, 3300 XL 8 mm probe option, 1.0 m cable, 1.5 in standoff, 5.7 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 compact external bearing-case mounting for relative shaft measurement.

### Axial-position probe access

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

### External radial-vibration sensing

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

### 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 21000-16-10-15-057-03-02 marking and the 057 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 21000-16-10-15-057-03-02, 21000 aluminum housing, 3300 XL 8 mm probe option, 1.0 m cable, 1.5 in standoff, 5.7 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           | 21000-16-10-15-057-03-02                                                                                |
| 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 21000-16-10-15-057-03-02 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 21000-16-10-15-057-03-02?

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

**Q5** Which diagnostic evidence should be reviewed for 21000-16-10-15-057-03-02?

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

**Q7** How should 21000-16-10-15-057-03-02 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 21000-16-10-15-057-03-02?

Confirm the documented Bently Nevada 21000 / 24701 Proximity Probe Housing Assemblies host and the complete 21000-16-10-15-057-03-02 marking before work.

**Q4** How should the installed configuration for 21000-16-10-15-057-03-02 be preserved?

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

**Q6** What must be recorded before replacing 21000-16-10-15-057-03-02?

Record the complete order code, 057 penetration option, installed thread, sleeve support and signal-loop components.

**Q8** Which model-specific limitation applies to 21000-16-10-15-057-03-02?

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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