Bently Nevada 31000-27-05-00-035-03-02

Official Technical Reference Excerpt

The corrosion-resistant housing provides external probe access and environmental protection for a machine-case-mounted radial vibration or Keyphasor measurement.

PRODUCT ROLE

Characteristic 1

Provides a protected external mount for an NSv proximity probe.

Characteristic 2

Allows probe-gap adjustment or replacement without machine disassembly.

Characteristic 3

Uses corrosion-resistant housing and mounting components.

Characteristic 4

Supports radial vibration or Keyphasor measurements through the machine case.

MANUFACTURER DOCUMENT

Manufacturer document	Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet 141610
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

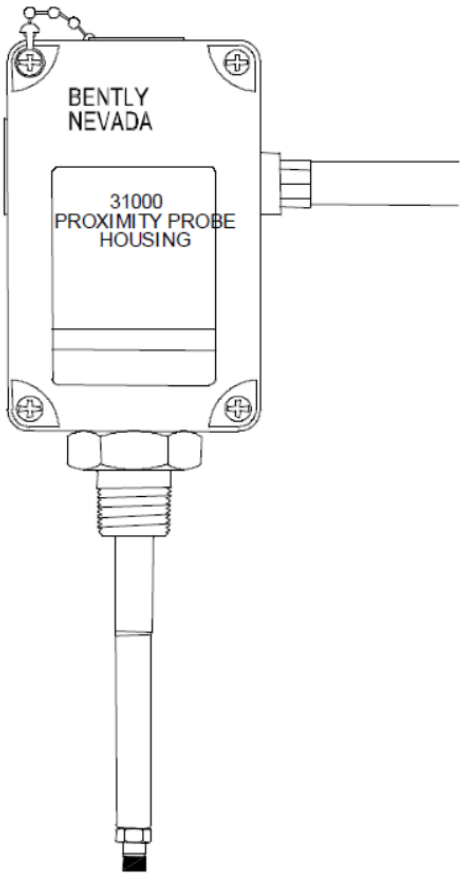
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31000 and 32000 Proximity Probe Housing Assemblies

Datasheet

Cordant™

141610 Rev. R



Description

The 31000/32000 Proximity Probe Housing Assemblies are recommended when mounting proximity probes through the machine case and are typically used for radially mounted transducers, whether vibration or Keyphasor measurements.

When using these housings to measure radial vibration, ensure that the machine casing is affixed to the bearing in order to get an accurate relative vibration signal.

When measuring shaft axial position with dual proximity probes, use housing 21022 instead. Consult datasheet (document 141601).

Use of a Proximity probe housing allows external access to the proximity probe and its extension cable, permitting gap adjustment or probe replacement without disassembly of the machine. The 31000/32000 Proximity Probe Housing Assembly is made of polyphenylene sulfide (PPS), an advanced, high-strength, thermoplastic with excellent corrosion resistance. Other elements of the housing assembly are made of corrosion-resistant stainless steel. The housing can be ordered with installed 3300 XL Proximity Probes and a variety of conduit fittings.

The 31000/32000 Proximity Probe Housing Assembly is fully compliant with the American Petroleum Institute's (API) 670 Standard for externally mounted proximity probe housings.

When installed in conjunction with an approved transducer system and appropriate I.S. barriers, the 31000/32000

Baker Hughes

Proximity Probe Housing Assembly can be used in intrinsically safe hazardous area applications.



The 31000/32000 Housing is intended to provide mechanical and environmental protection only, and is not an explosion-proof housing. When an explosion proof proximity probe housing assembly is required, use housing CA21000 or CA24701. Consult the datasheet (document 141600).

Related Documents

For probe information, refer to the following manuals:

- *3300 XL 8mm & 3300 5mm Proximity Transducer System User Guide* (document 141078)
- *3300 XL NSv Proximity Transducer System User Guide* (document 147357)
- *3300 XL 11mm Proximity Transducer System Installation* User Guide (document 146255)
- *Radiation Resistant Probe and Proximitor System* (document TW8029407)

Accessories

Part Number	Description
37948-01	Probe Support / Oil Seal Recommended for sleeves longer than 305 mm (12 in)
124200	31000 and 32000 User Guide

English Probe Sleeve for 31000 Proximity Probe Housings 108883-AAA

A: Measured Probe Sleeve Length	
	Recommendation Order in increments of 0.1 in (3 mm)

The individual probe sleeve length does **not** include the distance from the end of the sleeve to the probe tip or the gap from the probe tip to the target material. If only the part number of the original housing is known, and the sleeve cannot be measured, use the following table to determine the sleeve length:

AAA Option for 31000 Prox Probe Housing	Description
Housing AAA option for 3300 XL 8 mm probe option (A: 16 or A: 28)	Standoff adapter option from original housing (31000 option C) + Probe penetration option from original housing (31000 option D) + 0 2 5.
	Example Original part number 31000-16-10-15-035-03-02 **AAA** option for replacement sleeve (015 + 035 + 025) = **075**
Housing AAA option for 3300 XL NSv probe option (A: 26 or A: 27)	Standoff adapter option from original housing (31000 option C) + Probe penetration option from original housing (31000 option D) + 0 2 6.
	Example Original part number 31000-27-10-20-035-03-02 **AAA** option for replacement sleeve (020 + 035 + 026) = **0 8 1**.
Housing AAA option for 3300 XL 11 mm probe option (A: 33 or A: 34)	Standoff Adapter Option from original housing (31000 option C) + Probe penetration option from original housing (31000 option D) + 0 1 7.
	Example Original part number 31000-33-10-30-113-01-02 **AAA** option for replacement sleeve (030 + 113 + 017) = **1 6 0.**

Minimum Probe Sleeve Length	
3300 XL 8 mm probes	3.5 in (89 mm) = **0 3 5**
3300 XL NSv probe	3.6 in (91 mm) = **0 3 6**
3300 XL 11 mm probe	2.7 in (69 mm) = **0 2 7**
Maximum Probe Sleeve Length	
3300 XL 0.5 meter 8 mm probe	18.0 in (457 mm) = **180**
3300 XL NSv 0.5 meter probe	18.1 in (460 mm) = **181**

Related models and selection control

Use these live ApterPower pages for comparison. Verify each complete ordering string independently.

RELATED PRODUCT REFERENCES

Bently Nevada TACH100-01 174652-01	Technical-reference companion. Review the complete ordering string before selection.
Bently Nevada 330400-01-05	Technical-reference companion. Compare the required interface and system position.
Bently Nevada 330505-02-02-02	Technical-reference companion. Confirm the execution independently for the intended task.

EXACT-SELECTION CONTROLS

Product identity	Confirm the complete 31000-27-05-00-035-03-02 marking.
System interface	31000 proximity probe housing
Technical boundary	Record the installed 31000-27-05-00-035-03-02 interfaces and configuration before removal, then prove the monitored value, status and alarm path after installation.
Source	Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet 141610

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