

INDUSTRIAL AUTOMATION PRODUCT

31000-16-10-00-050-03-02

31000 proximity probe housing assembly

Protected mechanical path for the installed non-contact proximity measurement

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	31000 Proximity Probe Housing Assembly
Part number	31000-16-10-00-050-03-02
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	TECHNICAL VALUE
Housing model	31000
Probe option	3300 XL 8 mm probe
Probe cable length	1.0 m (39 in)
Standoff adapter	None
Probe penetration	5.0 in (127 mm)
Fittings	Two plugs; one 3/4-14 NPT fitting; one 3/4-to-1/2 NPT SST reducer; cable-seal grip and grommets
Mounting thread	3/4-14 NPT
Housing material	Conductive glass-reinforced PPS
Probe sleeve material	AISI 304 stainless steel
Housing rating	IP66; Type 4X
Retaining-nut torque	29.4 N m (260 in-lb)
Probe temperature range	-51 to +177 degC

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	installed 3300 XL probe
Companion hardware	AISI 304 probe sleeve
Field connection	machine-case mounting boss
Primary system function	Uses the documented 31000 housing format
Controlled acceptance duty	Bearing-case radial vibration

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System Role and Architecture

Protected mechanical path for the installed non-contact proximity measurement

FUNCTION 1

Uses the documented 31000 housing format

FUNCTION 2

Positions the probe through a None standoff and 5.0 in (127 mm) penetration

FUNCTION 3

Provides conductive PPS environmental protection

FUNCTION 4

Supports an API 670-compatible proximity installation

Matched system components

- installed 3300 XL probe
- AISI 304 probe sleeve
- machine-case mounting boss
- selected conduit or cable-seal hardware

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	installed 3300 XL probe
Companion hardware	AISI 304 probe sleeve
Field connection	machine-case mounting boss
Primary system function	Uses the documented 31000 housing format
Controlled acceptance duty	Bearing-case radial vibration

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Applications and Engineering Context

Bearing-case radial vibration

Uses the documented 31000 housing format

Axial-position probe mounting

Positions the probe through a None standoff and 5.0 in (127 mm) penetration

Exposed-machine proximity point

Provides conductive PPS environmental protection

Housing and sleeve renewal

Supports an API 670-compatible proximity installation

TECHNICAL NOTE

Verify 31000-16-10-00-050-03-02, None standoff, 5.0 in (127 mm) penetration, fittings and probe-cable length; preserve sleeve support, retaining torque and enclosure sealing.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	31000-16-10-00-050-03-02 / 31000-16-10-00-050-03-02 recorded
Physical interface	installed 3300 XL probe
Companion check	AISI 304 probe sleeve
Functional proof	Uses the documented 31000 housing format
Application test	Bearing-case radial vibration

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Engineering Precautions

1

Verify 31000-16-10-00-050-03-02, None standoff and 5.0 in (127 mm) penetration before work.

2

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

3

Preserve the 3/4-14 NPT machine-case thread and established housing orientation.

4

Record probe gap, sleeve position, cable route, fitting and grommet selection before removal.

5

Protect the conductive PPS cover, sleeve bore, probe tip and seals from impact or contamination.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500-42E	Related Bently Nevada product	View 3500-42E page
330180-X0-05	Related Bently Nevada product	View 330180-X0-05 page
330104-00-13-10-02-05	Related Bently Nevada product	View 330104-00-13-10-02-05 page
330104-00-05-10-02-00	Related Bently Nevada product	View 330104-00-05-10-02-00 page
330103-00-06-15-02-CN	Related Bently Nevada product	View 330103-00-06-15-02-CN page
330130-030-01-CN	Related Bently Nevada product	View 330130-030-01-CN page
149992-01	Related Bently Nevada product	View 149992-01 page
147663-01	Related Bently Nevada product	View 147663-01 page

MANUFACTURER SOURCE RECORD

Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet

141610 Rev. R

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