

APTER POWER

COMPLETE PRODUCT INFORMATION

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

31000 proximity probe housing assembly

Protected mechanical path for the installed non-contact proximity measurement

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

31000 Proximity Probe Housing Assembly

PART

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

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PRODUCT OVERVIEW

Protected mechanical path for the installed non-contact proximity measurement

1

Uses the documented 31000 housing format

2

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

3

Provides conductive PPS environmental protection

4

Supports an API 670-compatible proximity installation

SYSTEM COMPONENTS

installed 3300 XL probe

AISI 304 probe sleeve

machine-case mounting boss

selected conduit or cable-seal hardware

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.

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
136711-01	Related Bently Nevada product	View 136711-01 page
172103-01	Related Bently Nevada product	View 172103-01 page
149992-02	Related Bently Nevada product	View 149992-02 page
330130-040-01-05	Related Bently Nevada product	View 330130-040-01-05 page
330130-040-01-00	Related Bently Nevada product	View 330130-040-01-00 page
330103-00-12-10-01-00	Related Bently Nevada product	View 330103-00-12-10-01-00 page
330103-00-03-10-01-00	Related Bently Nevada product	View 330103-00-03-10-01-00 page
330878-50-00	Related Bently Nevada product	View 330878-50-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Match the probe, cable length and approval marking to the installed monitoring loop.
- 7 Apply the documented retaining-nut torque and support the sleeve against conduit or cable load.
- 8 Verify gap voltage, dynamic response, alarm action and IP66 closure before service.

ENGINEER FAQ

Q1 Does 31000-16-10-00-050-03-02 match installed 3300 XL probe in a Bearing-case radial vibration installation?

Verify the complete 31000-16-10-00-050-03-02 marking, the documented 31000 Proximity Probe Housing Assembly position and the installed installed 3300 XL probe before fitting the assembly.

Q2 How should 31000-16-10-00-050-03-02 be wired when it must uses the documented 31000 housing format?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 31000-16-10-00-050-03-02; then continuity-test the affected path.

Q3 Which 31000 Proximity Probe Housing Assembly records should be captured before removing 31000-16-10-00-050-03-02?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 31000-16-10-00-050-03-02 before disconnection.

Q4 What controlled test confirms that 31000-16-10-00-050-03-02 can positions the probe through a none standoff and 5.0 in (127 mm) penetration?

Apply the approved field or simulated stimulus, observe the 31000 Proximity Probe Housing Assembly indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which AISI 304 probe sleeve condition should be checked when 31000-16-10-00-050-03-02 reports an abnormal state?

Check the AISI 304 probe sleeve supply, seating and connection first, then compare channel diagnostics with the recorded 31000-16-10-00-050-03-02 baseline.

Q6 Can 31000-16-10-00-050-03-02 be moved directly into Axial-position probe mounting without validating selected conduit or cable-seal hardware?

No. Confirm the selected conduit or cable-seal hardware, revision, connection scheme and 31000 Proximity Probe Housing Assembly configuration before transferring 31000-16-10-00-050-03-02 to that duty.

Q7 What maintenance evidence is required after 31000-16-10-00-050-03-02 is used for Exposed-machine proximity point?

Retain the nameplate record, corrective action, final diagnostics and a controlled exposed-machine proximity point functional-test result for 31000-16-10-00-050-03-02.

Q8 How should 31000-16-10-00-050-03-02 be returned to service in Housing and sleeve renewal?

Restore power under control, verify provides conductive pps environmental protection, exercise the intended signal path and release 31000-16-10-00-050-03-02 only after the 31000 Proximity Probe Housing Assembly remains in its approved operating state.

SOURCE Bently Nevada 31000 and 32000 Proximity Probe Housing Assemblies Datasheet | 141610 Rev. R

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