Product role and integration

Bently Nevada / 21000-16-05-00-105-03-02

Bently Nevada 21000-16-05-00-105-03-02

Bently Nevada 21000-16-05-00-105-03-02 is an aluminum proximity probe housing assembly with a selected 3300 XL 8 mm probe for external access at the machine case.

Machine case / target — 21000 sleeve / reverse probe — External transducer chain

Installed-system role

Bently Nevada 21000-16-05-00-105-03-02 places the probe connection outside the machine case for gap setting and maintenance. Its sleeve supports the selected sensing location while the separate transducer chain performs the measurement.

Supply boundary

Confirm the 21000 aluminum housing, selected 8 mm probe, sleeve, seals and fitting-03 parts against the offered assembly. External extension cable, Proximitor Sensor and monitor are separate unless quoted.

Configuration context

The 00 standoff and 105 penetration options define a 10.5 in C plus D selection. Check the machine drawing, available probe lead and final gap before installation.

Technical scope

Technical source: Bently Nevada 21000, 24701, and 164818 Proximity Probe Housing Assemblies, 141600 Rev. AC - technical information excerpt. Housing and selected probe requirements apply separately; approval depends on the complete installation.

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Technical capability map

Bently Nevada / 21000-16-05-00-105-03-02

Parameter	Value
Manufacturer	Bently Nevada
Housing family	21000
Assembly function	External proximity-probe mounting
Housing body	Aluminum
Probe sleeve material	304 stainless steel
Probe selection	16; 3300 XL 8 mm probe
Probe cable option	05; 0.5 m
Standoff adapter	00; none
Probe penetration option	105; 10.5 in
Fitting selection	03; plug, reducer and cable seal grip

Parameter	Value
Plug thread	3/4-14 NPT
Reducer arrangement	3/4-14 NPT to 1/2-14 NPT
Machine mounting thread	02; 3/4-14 NPT
Cable seal grommets	1/8-3/16, 1/4-5/16 and 5/16-3/8 in cable ranges
Probe arrangement	Reverse-mount proximity probe in sleeve
Cover arrangement	Dome cover screwed into housing body
Conduit connections	Threaded housing ports
Penetration adjustment	+/-0.5 in (13 mm), option D
Sleeve support threshold	Additional support for C plus D above 12 in
Explosion-proof designation	This 21000 / fitting-03 selection is not a CA explosion-proof configuration

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Applications and engineering precautions

Bently Nevada / 21000-16-05-00-105-03-02

External probe servicing

Access the probe connection and gap-adjustment arrangement outside the machine case. Provide safe clearance around the cover and sleeve.

Shaft vibration mounting

Support a probe at the required shaft measurement location while the separate transducer chain measures movement relative to the mounting.

Position-channel installation

Locate the selected probe against a suitable position target, with machine drawing and calibrated gap defining the final installed relationship.

Protected cable entry

Use the supplied reducer, plug and cable seal grip to manage the external connection. Choose the grommet that matches the actual cable size.

Precaution	Engineering check
Verify the complete assembly	Match the probe, cable, standoff, penetration, fittings and mounting codes to the offered unit.
Check case and sleeve geometry	Confirm 3/4-14 NPT mounting and the 10.5 in selected reach against the machine drawing.
Establish the probe gap	Use the connected calibrated transducer system to set position within the available adjustment range.
Maintain seals and entries	Inspect O-rings and thread seals; install the correct cable grommet and plug unused entries.
Assess sleeve support	Review stiffness and vibration. Manufacturer instructions require additional support above 12 in C plus D.
Apply the correct approval boundary	Do not claim CSA explosion-proof suitability for this plain 21000 fitting-03 configuration.

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Exact-model engineering questions

Bently Nevada / 21000-16-05-00-105-03-02

Which probe is selected in 21000-16-05-00-105-03-02?

Option 16 selects a 3300 XL 8 mm probe. Verify the supplied probe marking and the complete extension-cable and Proximitor arrangement before connecting the measurement channel.

What does the 105 option mean in 21000-16-05-00-105-03-02?

It selects 10.5 in probe penetration. With the 00 standoff selection, no standoff length is added; final installed position still depends on the machine geometry and gap adjustment.

Which fittings belong to 21000-16-05-00-105-03-02?

Option 03 specifies one 3/4-14 NPT plug, one 3/4-14 to 1/2-14 NPT reducer, and a cable seal grip with grommets for the listed cable ranges.

Is 21000-16-05-00-105-03-02 an explosion-proof CA housing?

No. The manufacturer limits that CSA explosion-proof designation to specified CA versions and fitting options 00, 01, 02 or 04. This order is a plain 21000 with option 03.

How does 21000-16-05-00-105-03-02 mount to the machine?

The final 02 code selects 3/4-14 NPT mounting. Verify the machine-case port, thread engagement and sealing procedure before installing the assembly.

Does the sleeve of 21000-16-05-00-105-03-02 automatically require extra support?

Its selected C plus D reach is 10.5 in, below the stated over-12-in support threshold. The installation must still be reviewed for rigidity and resonance in its actual machine environment.

How is the probe position adjusted in 21000-16-05-00-105-03-02?

The manufacturer gives option D an adjustment of +/-0.5 in (13 mm). Set the final probe gap using the connected calibrated channel and secure the assembly according to the installation procedure.

What is the material arrangement of 21000-16-05-00-105-03-02?

The 21000 housing body is aluminum and its probe sleeve is 304 stainless steel. Check seals, cover and cable-entry condition during service rather than treating the housing body alone as the complete environmental barrier.

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Lifecycle, verification and portfolio

Bently Nevada / 21000-16-05-00-105-03-02

Manufacturer lifecycle context

A current manufacturing or support phase for this complete order number has not been confirmed from a model-specific manufacturer lifecycle notice.

Support boundary

Request current written support and replacement guidance from Bently Nevada using the complete marking and installed transducer configuration. Apter Power availability is confirmed separately in the quotation.

Commissioning focus

Compare full marking, mounting and selected components. Use the connected calibrated transducer system to set position within the available adjustment range.

Release criterion

Record stable channel indications and the final installed configuration. Site acceptance completed before returning to service.

Technical references

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

Related Bently Nevada portfolio references

Independent product references; these links do not establish compatibility, substitution or endorsement.

Complete product reference	Navigation
Bently Nevada 21000-16-10-15-144-03-02	View Bently Nevada 21000-16-10-15-144-03-02
Bently Nevada 21000-16-10-00-076-03-02	View Bently Nevada 21000-16-10-00-076-03-02
Bently Nevada 21000-28-10-000-102-03-02	View Bently Nevada 21000-28-10-000-102-03-02

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