Plan the installation scope

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.

Apter Power engineering guide. Apply the manufacturer procedure and the approved site design for the installed equipment.

Configuration and 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.

Identification checkpoint	Required value
Housing family	21000
Assembly function	External proximity-probe mounting
Housing body	Aluminum
Probe sleeve material	304 stainless steel

Operating context

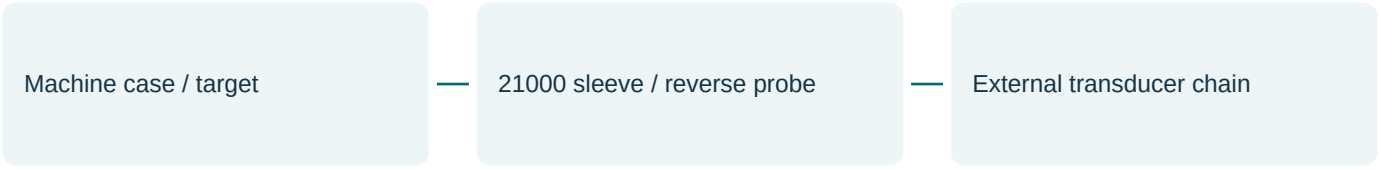
The 00 standoff and 105 penetration options define a 10.5 in C plus D selection. Check the machine drawing, available probe lead and final gap before installation.

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.

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.



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Prepare power and interfaces

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

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.

Technical boundary	Applicable value
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
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

Installation relationship

The selected C plus D reach is 10.5 in. Establish installed probe position from the machine drawing and the calibrated gap-setting procedure.

Protection boundary

This plain 21000 assembly with fitting option 03 is not the specified CA explosion-proof configuration. Review the complete probe circuit and actual installation approval separately.

System relationship

The threaded cover and external housing provide access to the probe and cable connection. Maintain the supplied O-rings, thread seal and correct cable-seal grommet for the installed arrangement.

Additional interface criterion	Documented boundary
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

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Install with controlled hold points

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

Complete the identity and safe-state checks before disturbing the installed circuit. The following hold points follow the product-specific installation boundary.

01 / Verify the complete assembly

Match the probe, cable, standoff, penetration, fittings and mounting codes to the offered unit.

02 / Check case and sleeve geometry

Confirm 3/4-14 NPT mounting and the 10.5 in selected reach against the machine drawing.

03 / Establish the probe gap

Use the connected calibrated transducer system to set position within the available adjustment range.

04 / Maintain seals and entries

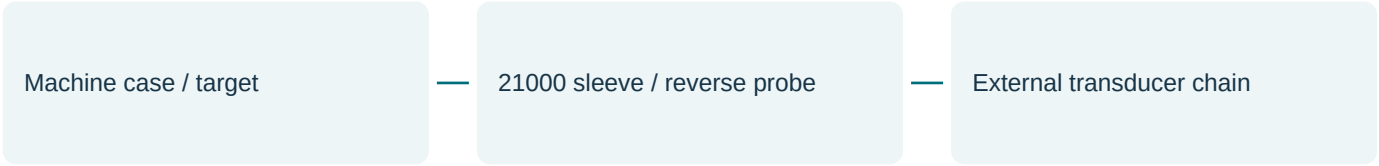
Inspect O-rings and thread seals; install the correct cable grommet and plug unused entries.

05 / Assess sleeve support

Review stiffness and vibration. Manufacturer instructions require additional support above 12 in C plus D.

06 / Apply the correct approval boundary

Do not claim CSA explosion-proof suitability for this plain 21000 fitting-03 configuration.



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.

Commission and verify operation

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Stage	Controlled action	Acceptance focus
Identify	Compare full marking, mounting and selected components.	Identity and intended system agree.
Prepare	Match the probe, cable, standoff, penetration, fittings and mounting codes to the offered unit.	Correct components and safe machine state.
Install	Confirm 3/4-14 NPT mounting and the 10.5 in selected reach against the machine drawing.	Mounting and connection checks accepted.
Adjust	Use the connected calibrated transducer system to set position within the available adjustment range.	Required gap and signal verified.
Release	Record stable channel indications and the final installed configuration.	Site acceptance completed before returning to service.

Application configuration

CSA explosion-proof applicability is limited to specified CA housings and fitting combinations. This plain 21000 order with fitting option 03 must not be presented as that explosion-proof configuration.

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.

Acceptance decision

Compare the controlled observations with the installed configuration and the manufacturer procedure. Investigate a disagreement before returning the function to service; retain the measured state and the corrective action in the handover record.

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Diagnose and hand over

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

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.

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.

Lifecycle and service planning

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.

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 21000-28-10-00-098-04-02	View Bently Nevada 21000-28-10-00-098-04-02
Bently Nevada 21000-28-10-00-217-04-02	View Bently Nevada 21000-28-10-00-217-04-02
Bently Nevada 21000-16-10-15-114-03-02	View Bently Nevada 21000-16-10-15-114-03-02

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