Bently Nevada 21000-16-10-06-065-04-02

Apter Power installation and commissioning guide

Bently Nevada 21000-16-10-06-065-04-02 is a 21000 aluminum body proximity probe housing assembly configured with a 3300 XL 8 mm probe and 1.0 m probe lead.

01 / Work scope

This aluminum body housing gives external access to a reverse-mounted proximity probe at a machine casing.

Selected assembly

Parameter	Selected configuration
Assembly family	21000 proximity probe housing
Housing construction	aluminum body
Probe selection	3300 XL 8 mm probe
Probe lead	1.0 m
Standoff option	C06; dimension to be confirmed
Penetration option	6.5 in probe penetration

System position

Boundary	Installed-system relationship
Machine-case context	The 21000-16-10-06-065-04-02 housing positions a proximity probe through the machinery case for an externally accessible sensing point.
Compatibility boundary	Use the selected 3300 XL 8 mm probe, 1.0 m lead and 3/4-14 NPT mounting thread only with a verified machine opening and compatible transducer chain.

02 / Before installation

The 16 probe option selects 3300 XL 8 mm probe; option 10 supplies a 1.0 m lead. Match the probe and extension cable to the installed 3300 XL 8 mm transducer system before assigning measurement performance.

Parameter	Selected configuration
Probe lead	1.0 m
Standoff option	C06; dimension to be confirmed
Penetration option	6.5 in probe penetration
C plus D selection	C06 dimension plus 6.5 in penetration; confirm total reach
Conduit fittings	one 3/4-14 NPT plug
Mounting option	3/4-14 NPT mounting thread
Sleeve material	304 stainless steel
Probe mounting	reverse mount

Readiness checks

Check	Reason or action
Isolation	Apply the site isolation procedure before opening the machine probe housing.
Mechanical fit	Check the 3/4-14 NPT mounting thread against the machined case opening before assembly.
Sleeve support	Support a selected C plus D length above 12 in to limit sleeve resonance.
Probe clearance	Check side-view and rear-view clearance at the chosen penetration and case geometry.

Record the complete product marking and the installed machine drawing before removing an existing item.

03 / Mechanical and electrical fitting

C06 is the standoff selection on the complete marking; confirm its actual dimension on the offered assembly and machine drawing. Option 065 specifies 6.5 in probe penetration. Establish the final probe gap from the machine drawing and matched transducer procedure.

Sequence	Installation action
1. Isolation	Apply the site isolation procedure before opening the machine probe housing.
2. Mechanical fit	Check the 3/4-14 NPT mounting thread against the machined case opening before assembly.
3. Sleeve support	Support a selected C plus D length above 12 in to limit sleeve resonance.
4. Probe clearance	Check side-view and rear-view clearance at the chosen penetration and case geometry.
5. Sealing	Inspect the housing seals, conduit entries and probe pressure boundary before service.
6. Commissioning	Set and verify the probe gap with the matched transducer components and machine stopped as required.

Configuration-specific notes

Topic	Technical limit
Installation relationship	Confirm the C06 standoff dimension, then add the 6.5 in penetration to establish the selected reach and installed position.
Protection	Approval of a hazardous-area installation depends on the complete housing and transducer arrangement; do not infer it from a fitting alone.

04 / Commissioning acceptance

Option 04 identifies one 3/4-14 NPT plug; option 02 identifies 3/4-14 NPT mounting thread. The conduit entry, sealing arrangement and case interface must match these selected pieces.

Question	Engineering answer
What housing construction does 21000-16-10-06-065-04-02 use?	The 21000 assembly uses an aluminum body housing; match its body and sleeve to the installed machine environment.
Which probe option is selected on 21000-16-10-06-065-04-02?	Code 16 selects 3300 XL 8 mm probe; the probe is a component of the housing assembly.
How long is the probe lead specified for 21000-16-10-06-065-04-02?	Code 10 selects 1.0 m of probe cable. Check the remaining transducer-system length with the installed extension cable and Proximitor sensor.
How does 21000-16-10-06-065-04-02 establish its standoff position?	C06 is the selected standoff code. Confirm its physical length on the offered assembly and installation drawing before setting the probe position.
What penetration is encoded in 21000-16-10-06-065-04-02?	Option 065 denotes 6.5 in probe penetration. Add the confirmed C06 standoff length to determine the total C plus D reach.

Acceptance record

Measurement use	Supported context
Radial measurement	Position the probe at a documented radial vibration or position location on the machine casing.
Gap access	Use the external housing access to adjust the installed probe gap without dismantling the machine.

Accept the installation only after the installed system and target configuration have been checked against the machine procedure.

05 / Service handover

Question	Engineering answer
Which conduit pieces are associated with 21000-16-10-06-065-04-02?	Option 04 selects one 3/4-14 NPT plug. Confirm that the offered hardware corresponds to the complete assembly.
What mounting interface is selected for 21000-16-10-06-065-04-02?	Code 02 specifies 3/4-14 NPT mounting thread; do not substitute a different thread or sleeve arrangement.
When does the sleeve of 21000-16-10-06-065-04-02 need additional support?	The manufacturer calls for support when C plus D exceeds 12 in. Confirm the C06 dimension, calculate the total reach with D065, and assess sleeve support against the machine layout.

Service reference

Have Bently Nevada review the installed probe, sleeve, fitting and mounting configuration before selecting a service replacement.

Related product references

Related product	Selection note
Bently Nevada 31000-16-05-00-033-03-02	Separate catalogue reference
Bently Nevada 330801-28-20-050-03-02	Separate catalogue reference
Bently Nevada 330880-01-20-058-03-02	Separate catalogue reference
Bently Nevada 330880-00-00-000-03-02	Separate catalogue reference
Bently Nevada 330880-16-00-021-03-02	Separate catalogue reference
Bently Nevada 21504-000-040-10-02	Separate catalogue reference
Bently Nevada 330101-00-10-10-02-00	Separate catalogue reference

Technical reference: Bently Nevada 21000, 24701, and 164818 Proximity Probe Housing Assemblies, 141600 Rev. AC.