

21000-28-05-00-070-01-02

21000 proximity probe housing assembly

Mechanical support and environmental protection for a reverse-mount proximity-probe signal path

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

21000 Proximity Probe Housing Assembly

PART

21000-28-05-00-070-01-02

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PRODUCT OVERVIEW

Mechanical support and environmental protection for a reverse-mount proximity-probe signal path

1

Provides external access for probe adjustment

2

Uses a 3/4-14 NPT machine mounting thread

3

Sets the documented probe penetration to 7.0 in (178 mm)

4

Protects the probe lead inside a stainless-steel sleeve

SYSTEM COMPONENTS

Configured reverse-mount Bently Nevada probe

304 stainless-steel probe sleeve

Machine-case threaded boss

Selected cable seal, reducer and conduit hardware

TECHNICAL NOTE

Confirm the complete 21000-28-05-00-070-01-02 marking and installed legacy probe code, 3/4-14 NPT mounting, 7.0 in (178 mm) penetration and fitting arrangement. Verify the selected probe approval matches the installed extension cable and Proximitor Sensor.

TECHNICAL DATA

PARAMETER	VALUE
Housing model	21000
Probe configuration	3300 XL 8 mm probe; selectable hazardous-area approvals
Probe cable length	0.5 m (20 in)
Standoff adapter	None
Probe penetration	7.0 in (178 mm)

PARAMETER	VALUE
Fittings	One 3/4-14 NPT explosion-proof fitting and one 3/4-14 NPT plug
Mounting thread	3/4-14 NPT
Housing material	Aluminum
Probe sleeve material	304 stainless steel
Enclosure type	Type 4

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
21000-34-10-00-078-04-02	Related Bently Nevada product	View 21000-34-10-00-078-04-02 page
21000-34-10-00-071-04-02	Related Bently Nevada product	View 21000-34-10-00-071-04-02 page
31000-28-05-00-056-01-02	Related Bently Nevada product	View 31000-28-05-00-056-01-02 page
330880-16-00-039-03-02	Related Bently Nevada product	View 330880-16-00-039-03-02 page
21000-16-10-00-077-03-02	Related Bently Nevada product	View 21000-16-10-00-077-03-02 page
129716-173-037-15-05	Related Bently Nevada product	View 129716-173-037-15-05 page
330851-02-000-060-10-01-05	Related Bently Nevada product	View 330851-02-000-060-10-01-05 page
74712-03-10-02-00	Related Bently Nevada product	View 74712-03-10-02-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Bearing-housing radial vibration

Provides external access for probe adjustment

Thrust-position probe installation

Uses a 3/4-14 NPT machine mounting thread

Machine-case probe retrofit

Sets the documented probe penetration to 7.0 in (178 mm)

Accessible proximity-probe maintenance

Protects the probe lead inside a stainless-steel sleeve

PRODUCT PRECAUTIONS

- 1 Verify the complete 21000-28-05-00-070-01-02 code, housing position and installed probe marking before work.
- 2 Place the monitored machine and protection channel in the approved maintenance state.
- 3 Confirm the 3/4-14 NPT machine-case thread and preserve the housing orientation.
- 4 Record probe gap, sleeve position, cable route, reducer and gland arrangement before removal.
- 5 Protect the probe tip, sleeve bore, O-rings and sealing surfaces from damage or contamination.
- 6 Match the installed probe, connector and approval options to the documented monitoring loop.
- 7 Secure the sleeve and cable so probe alignment is not altered by conduit or gland load.
- 8 After assembly, verify static gap, dynamic response, seal integrity and channel alarm action.

ENGINEER FAQ

Q1 Does 21000-28-05-00-070-01-02 match Configured reverse-mount Bently Nevada probe in a Bearing-housing radial vibration installation?

Verify the complete 21000-28-05-00-070-01-02 marking, the documented 21000 Proximity Probe Housing Assembly position and the installed Configured reverse-mount Bently Nevada probe before fitting the assembly.

Q3 Which 21000 Proximity Probe Housing Assembly records should be captured before removing 21000-28-05-00-070-01-02?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 21000-28-05-00-070-01-02 before disconnection.

Q5 Which 304 stainless-steel probe sleeve condition should be checked when 21000-28-05-00-070-01-02 reports an abnormal state?

Check the 304 stainless-steel probe sleeve supply, seating and connection first, then compare channel diagnostics with the recorded 21000-28-05-00-070-01-02 baseline.

Q7 What maintenance evidence is required after 21000-28-05-00-070-01-02 is used for Machine-case probe retrofit?

Retain the nameplate record, corrective action, final diagnostics and a controlled machine-case probe retrofit functional-test result for 21000-28-05-00-070-01-02.

Q2 How should 21000-28-05-00-070-01-02 be wired when it must provides external access for probe adjustment?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 21000-28-05-00-070-01-02; then continuity-test the affected path.

Q4 What controlled test confirms that 21000-28-05-00-070-01-02 can uses a 3/4-14 npt machine mounting thread?

Apply the approved field or simulated stimulus, observe the 21000 Proximity Probe Housing Assembly indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 21000-28-05-00-070-01-02 be moved directly into Thrust-position probe installation without validating Selected cable seal, reducer and conduit hardware?

No. Confirm the Selected cable seal, reducer and conduit hardware, revision, connection scheme and 21000 Proximity Probe Housing Assembly configuration before transferring 21000-28-05-00-070-01-02 to that duty.

Q8 How should 21000-28-05-00-070-01-02 be returned to service in Accessible proximity-probe maintenance?

Restore power under control, verify sets the documented probe penetration to 7.0 in (178 mm), exercise the intended signal path and release 21000-28-05-00-070-01-02 only after the 21000 Proximity Probe Housing Assembly remains in its approved operating state.

SOURCE Bently Nevada 21000, 24701 and 164818 Proximity Probe Housing Assemblies Datasheet | 141600 Rev. AC

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